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ABSTRACT

Seven computer programs were written for use with the semantic differential and two additional programs were modified or expanded. The nine programs can compute the following: means, standard deviations, and standard errors on nine subscales and on evaluation, potency, and activity factors (EPA); Osgood D values for all concepts; correlations between EPA scores and D values; tests of significance within and between data samples; and data matrices for construction of a three-dimensional model based upon EPA scores or Osgood D scores. The programs are written in FORTRAN IV for processing on a Burroughs 4700 with 109K. Up to 109 adjective pairs with nine subscales can be accommodated. (The nine programs are appended.) (Author/CP)

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Computer Programs for the Semantic Differential:
An Update and Expansion

Edwin D. Lawson and Barbara L. Metivier

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Abstract

Earlier programs by Lawson, Golden and Chmura for use with the semantic differential have been modified, expanded, and augmented to make possible efficient analysis of as many as 109 concepts, with nine subscales, for a large number of respondents. The nine programs can compute: Ms SDs, SEs on nine subscales and on Evaluation, Potency, and Activity (EPA) factors, Osgood D values for all concepts, correlations between EPA scores and D values, tests of significance within and between samples of data, and other measures.

SEMANTIC DIFFERENTIAL PROGRAMS

Sem Diff 2

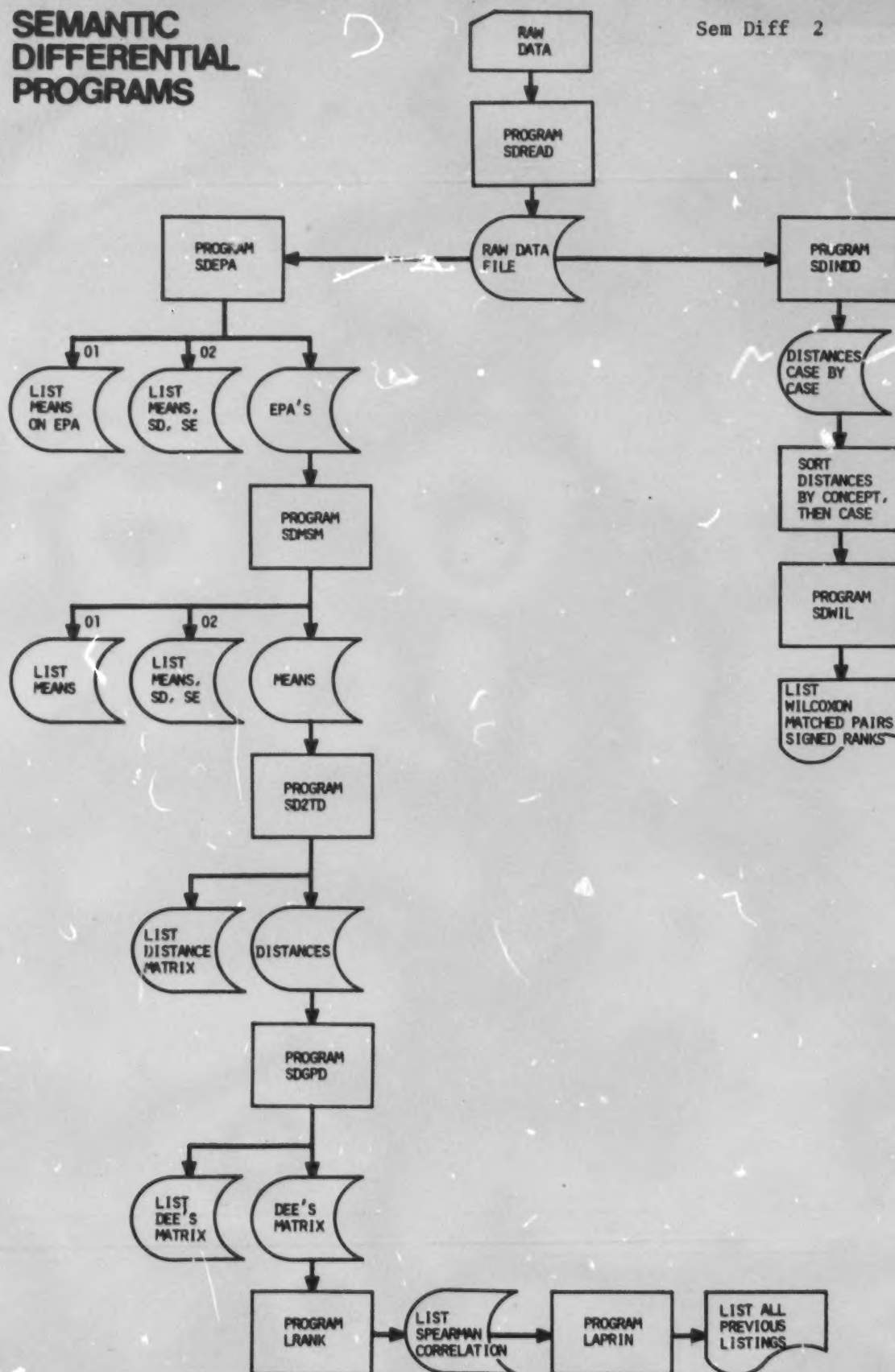


Figure 1. Flow chart for semantic differential programs.

In a previous presentation (Lawson, Golden, and Chmura, 1972) seven programs for use with the semantic differential (Osgood, Suci, and Tannenbaum, 1957) were described. Since then, demands for increased capacity, more sophisticated statistical comparisons as well as newer computers, have brought about modifications, expansions, and additions to existing programs. There are seven programs written specially for use with the semantic differential and two modified for use with it.

The programs can perform computations for:

1. Ms, SDs, SEs on nine subscales.
2. Ms, SDs, SEs, on Evaluation, Potency, and Activity factors.
3. Osgood D values for all concepts.
4. The correlation between distance measures obtained from EPA scores and Ds.
5. Significance tests within one sample for D values.
6. Significance tests between two samples for D values.
7. Data matrix for construction of a three-dimensional model based upon EPA scores.
8. Data matrix for construction of a three-dimensional model based upon Osgood D scores. (For a description of the procedure in obtaining semantic differential data, preparation of computer cards, and construction of a semantic differential model, see Lawson (1978).

The computer programs are written in FORTRAN IV for processing on a Burroughs 4700 with 109K. The user with another model of computer might have to make adjustments depending on the system used. Up to 109 concepts with nine subscales can be accommodated. The number of cases would be determined by the size of the file in program SDINDD. A flow chart is shown in Figure 1. A description of the specific programs follows.

SDREAD (QELCRD):¹

This program reads in the input data and stores it in a disk-pack file. The input data are a card file (QELCRD) and are in the same format as the output file. If the concepts GOOD, BAD, STRONG, WEAK, ACTIVE, and PASSIVE have identification numbers of A, B, C, D, E, F, these are changed to N-5, N-4, N-3, N-2, N-1, N with N being the total number of concepts.

SDEPA (QELOPA):

This program computes EPA (Evaluation, Potency, and Activity) scores of selected subscales. It can also compute SDs, SEs if these are needed.

¹In revising the programs additional titles have been created. Thus, SDREAD will sometimes appear as QELCRD; SDEPA as QELOPA, SDMSM as QELOSM, etc. A complete listing will be found in the Introductory Comments just before the actual programs.

The program is set up to use the following subscales: (1) Kind-Cruel, (2) Weak-Strong, (3) Fast-Slow, (4) Cold-Hot, (5) Large-Small, (6) Dishonest-Honest, (7) Happy-Sad, (8) Delicate-Rugged, (9) Sharp-Dull. Scales $1+6+7/3$ yield the Evaluation score, $2+5+8/3$, the Potency, $3+4+9/3$, the Activity. Polarity of alternate scales is reversed. Of course, users may make modifications in scales or treatment by appropriate adjustments to the program.

In their work Osgood et al. have identified the three basic dimensions of EPA. Williams (1966), and Towne (1971) have averaged subscale scores to derive EPA values. These EPA values have been useful in construction of a semantic differential model following somewhat the procedure of Prothro and Keehn (1957), and Towne (1971). The EPA model construction procedure makes the assumption that E, P, and A are orthogonal factors and are composed of equal units. While the rationale of the procedure may raise doubts with some about 50 investigations with group data and hundreds with individual data show that models built with EPA averages have closely approximated those built with the more complex Osgood D scores. Certainly the difference for the majority of cases is no greater and probably is less than would be true for test/retest data.

In building an EPA model, each concept is plotted in three dimensional space using E, P, and A scores as Y, Z, and X dimensions respectively. In actual practice EPA scores are doubled and measured in inches. Styrofoam balls one and one-half inches represent concepts. Dowel sticks (1/8") connect the balls to one another. For specific directions on the construction, see Lawson (1978).

SDMSM (QELOSM):

This program computes the Ms, SDs, SEs for the nine subscales listed under SDEPA above on which each concept is rated. It will handle 109 concepts.

In order to make comparisons of the EPA scores with D scores it is first necessary to transform the EPA scores into a similar type of function. The SD2TD program obtains the distance between concepts by using the generalized distance formula between two points in space:

$$\text{EPA distance} = \sqrt{(X-X_1)^2 + (Y-Y_1)^2 + (Z-Z_1)^2}$$

and substituting E, P, and A for X, Y, and Z. E, P, and A would represent scores (means) for the first concept being compared, E_1 , P_1 , and A_1 for the second.

Output is a matrix which indicates the distance between each concept and every other. In addition to being used in other programs, EPA distance scores provide a useful check in the construction of EPA models. This program will handle up to 55 concepts.

SDGPD (QELOPD):

A major way of looking at semantic differential data is to follow the Osgood technique and to determine the D-values between each concept and every concept. These D-values are usually highly correlated with the EPA distance values above but are derived in a quite different fashion. While the EPA-distance values first combine the subscales and three factors and treat these separately, the Osgood D values begin by finding the distances between concepts by using all of the subscales using the generalized distance formula of solid geometry (Osgood, et al. 1957, p. 91):

$$D_{il} = \sqrt{\sum_j d_{il}^2}$$

where D_{il} is the linear distance between the points in the semantic space representing concepts i and l and d_{il} is the algebraic difference between the coordinates i and l on the same dimension of factor, j . Summation is over k dimensions.

According to Osgood, D is a measure of profile similarity. Thus, if the concepts GOOD and BAD were each rates on nine subscales, the profiles could be compared. D is an index of the similarity of two profiles and is the square root of the sum of the squared differences between subscale scores on the two profiles. Thus if a respondent had rated the concept GOOD, 1 on Kind-Cruel, 7 on Weak-Strong, and 1747144 on the remaining scales and scores of 714111744 for the concept BAD, the D value would be

	<u>GOOD</u>	<u>BAD</u>	<u>d</u>	<u>d²</u>
Kind-Cruel	1	7	6	36
Weak-Strong	7	1	6	36
Fast-Slow	1	4	3	9
Cold-Hot	7	1	6	36
Large-Small	4	1	3	9
Dishonest-Honest	7	1	6	36
Happy-Sad	1	7	6	36
Delicate-Rugged	4	4	-	--
Sharp-Dull	4	4	-	--

$$\Sigma = 198 = \underline{d^2}$$

$$\underline{d} = 14.07$$

From a matrix of Ds it is possible to build a semantic model, Osgood and Suci, 1952; Osgood et al., 1957; Lawson, 1971, 1978; Lawson and Giles, 1973. Output of program SDGPD is a matrix of distances between each concept and every other.

As mentioned above, a matrix of coordinates was also developed from program SDEPA. At that time, it was pointed out it is possible to build a model from those values. The method developed by Osgood is somewhat more difficult. With the Osgood technique the concepts are plotted by distances between concepts (the D-values) rather than by E, P, and A coordinates. Anyone who has built such a model knows what a confusing and frustrating task it is.

One of the major difficulties of building the Osgood D model directly is determining which plane to put the location of the various concepts since the plots are made in distances between concepts. Plotting the first three or four concepts is easy. Those after that become very difficult. However, building an EPA model first or drawing one first will approximate the general structure and significantly speed up the construction process. Most investigators would probably be interested in the next program as a check.

LRANK (QELONK):

This program has been adapted slightly from the LRANK subroutine of the IBM System/360 Scientific Subroutine Package. It computes the Spearman rank correlation between two sets of distance scores on the semantic differential: EPA values from Program EPA and D values from SDGPD. The higher the correlation, the greater the similarity in the relationship between the two sets of values. When the correlations are very high, i.e., .90 and above, this would seem to indicate that the two approaches are more likely to be measuring the same factors. In this connection it should be noted that building an EPA model of 24 concepts takes on the average about three hours, while an Osgood D model built initially would run between 10 and 20 hours. Fredonia investigations using 25-50 respondents on up to 55 concepts have yielded correlations between .87 and .99.

LAPRIN (QELOIN):

This program prints out the results of the programs above.

SDINDD (QELOSD):

This program computes Osgood D-values for each concept rated on the nine subscales by each respondent. These data are prepared for use with the Wilcoxon rank test. The program is set up to handle six control concepts whose identification numbers are the last six numbers of the concept list.

Building an EPA or a D model is, of course, of interest to the investigator, but there is probably also an interest in determining whether a particular D (output from Program SDGPD) between any two concepts is of

statistical significance. Suppose the investigator wishes to learn whether the concept MASCULINE was rated closer to the concept GOOD than to the concept BAD. To do this all of the D s for each respondent in the sample would have to be computed between GOOD and MASCULINE and between BAD and MASCULINE. This is a great deal of work. Lazowick (1955), Guptill (1965), and with some variation, Williams (1966) have analyzed D scores but on a somewhat limited basis, possibly because of the tremendous amount of work involved. Since the distribution of D values is not known, the investigators have used non-parametric measures as Osgood et al. have suggested (1957, p. 101).

One of the measures used has been the Wilcoxon since it is distribution free. Program SDINDD prepares the data for such an analysis. Thus, for each respondent the D value is computed between each concept and every other concept.

The program assigns ranks to two sets of distances. In the illustration above it would be determined whether the group had rated MASCULINE closer to GOOD or to BAD and at what level. In the sample data for High Women in the section below--ANALYSIS OF RESPONSES BY HIGH WOMEN, the concept MASCULINE is shown to be closer to GOOD than BAD at the p level of .00092 with a Z score of 3.31429. MASCULINE is also closer to STRONG than to WEAK at the .00001 level and to ACTIVE vs. PASSIVE at the .00002 level.

SDWIL (QELOWL):

This program is an adaptation of the MPAIR subroutine of the IBM System/360 Scientific Subroutine Package of the Wilcoxon test for use with semantic differential data. The program takes data input from Program SDINDD (QELOSD) and makes a series of comparisons to determine the significance of the distance (converted into ranks) as a two-tailed test between one concept and two reference concepts. Thus, where concept #101 = GOOD and concept #102 = BAD we are interested whether another concept such as SELF is significantly closer to the concept GOOD or the concept BAD.

Program SDWIL is now set up for comparisons of variables (concepts) to GOOD vs. BAD, STRONG vs. WEAK, ACTIVE vs. PASSIVE. Other concepts can, of course, be substituted depending upon the design of the investigator. The Fredonia investigations have had respondents rate the concepts GOOD, BAD, STRONG, WEAK, ACTIVE, and PASSIVE and have used them to represent the poles of the E, P, and A dimensions. The identification numbers of the control concepts are the last six numbers of the concept list, i.e., if there are 106 concepts, the control concepts are 101-106. The program will handle up to 109 concepts.

Comparisons:

Program SDWIL is also set up to use two input files and to compare the distances between one concept and the control concept in the first file

and the identical concept and control concept in the second file. Initially it processes the first file, Sample #1, High Women, as described above in Program QELOWL and then does the same with the second file, Sample #2, Low Women. Then it takes from each file the distances between each concept and the positive controls (GOOD, STRONG, and ACTIVE) and compares like concepts. Finally, it does the same for the distances between the concepts and the negative controls (BAD, WEAK, and PASSIVE).

For an illustration turn to the table on page 103. DIVORCE (Concept #12) on the Wilcoxon test is ranked closer to GOOD by the Low sample of Women than by the High sample. The entry under the column "GOOD" shows a P of .01188 which indicates that the distances from DIVORCE to GOOD for the first sample (in this case the High Women) are significantly more than those for the second group, the Low Women. This would mean that the Low Women perceive divorce more favorably. Similarly, the Low Women perceive DIVORCE as higher on STRONG and ACTIVE.

CONSTRUCTION OF MODELS:

A procedure has been developed by which semantic differential data from individuals or groups can be represented by a three-dimensional model. Many feel that this kind of representation contributes understanding of the relationships involved. Actual construction can be accomplished with an economy of time, labor, and materials (a complete kit of materials is available at the Fredonia College Bookstore; the frame for building the apparatus would be somewhat extra). Student response to model building has been very enthusiastic in social psychology and personality classes. Many students have reported that they have developed greater insight about family and social relationships from the models. Some clinical psychologists have indicated that the model tells as much about the patient's perceptions as several hours of interviewing. The procedure for building a model for group data is essentially the same as for building one for individual data. The procedure is described in An Easy Semantic Differential Procedure: Construction of a Three-Dimensional Model. A limited number of copies are available without charge from:

Dr. E. D. Lawson
Department of Psychology
State University College
Fredonia, New York 14063

and also as ERIC document ED 163 033.

Slide-cassette program: For assistance in construction of an EPA model a program of 56 slides has been prepared by Steve Skrzypek. The program will take students through all stages of model construction. The program is available from:

Reed Library
State University College
Fredonia, New York 14063
(716) 673-3183

PROGRAM INFORMATION:

For further information on the computer programs, contact:

Barbara Metivier
Computing Services
State University College
Fredonia, New York 14063
(716) 673-3393

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```
C*****C
C      SDZPTD    QELOTD = OBJECT FILE
C               QELSTD = SOURCE FILE
C
C      THIS PROGRAM IS FOR USE WITH SEMANTIC DIFFERENTIAL PROGRAMS.
C
C      THE PROGRAM COMPUTES THE DISTANCE BETWEEN TWO CONCEPTS
C      (VARIABLES) AS DEVELOPED IN PROGRAM SDEPA, SDEPA YIELDS
C      THREE VALUES ON THE EVALUATIVE, POTENCY AND ACTIVITY
C      FACTORS OF THE SEMANTIC DIFFERENTIAL.
C
C      THIS PROGRAM WAS DEVELOPED BY G.W.GOLDEN,JR., B.L.METIVIER,
C      AND E.D.LAWSON AT THE COMPUTER CENTER, STATE UNIVERSITY
C      COLLEGE AT FREDONIA, NEW YORK, 14063. THIS PROGRAM WILL
C      HANDLE UP TO 55 CONCEPTS, I.E. CONCEPT N1 TO CONCEPT N2
C      WHERE  $N2=N1+(N-1)$  AND CONCEPT K IS FOUND IN RECORD(K+1) IN
C      THE INPUT FILE, QELDPA. THIS IS A DISK FILE CREATED BY
C      PROGRAM SDEPAO(QELOPA) WITH THE FOLLOWING FORMAT:
C
C          RECORD      COL      CONTENTS
C            1         1-3      NUMBER OF CONCEPTS
C            2         1        SPACE
C                   2-4      CONCEPT IDENT NUMBER
C                   5-11     VALUE OF E
C                   12-18    VALUE OF P
C                   19-25    VALUE OF A
C                   26-30    SPACE
C                   31-41    CONCEPT - ALPHA
C                   42-80    SPACE
C      3-(N+1)       SAME AS RECORD 2 - ONE RECORD FOR EACH CONCEPT
C
C      OUTPUT FROM THIS PROGRAM IS A DISK FILE, QELDTD, FOR USE IN
C      LFRANK (QELUNK), THE CORRELATION PROGRAM. THE VALUES RE-
C      CORDED WILL BE THE DISTANCES BETWEEN CONCEPT 1 AND 2 TO N
C      IN THE 1ST (N-1) RECORDS, CONCEPT 2 AND 3 TO N IN THE NEXT
C      (N-2) RECORDS, CONCEPT 3 AND 4 TO N IN THE NEXT (N-3)
C      RECORDS, ETC.
C
C      WHEN THIS PROGRAM IS FINISHED, IT CALLS PROGRAM SDGPD
C      (QELOPD).
C*****C
```


SUMMARIZE ALL

FILE 4=QELDPA,UNIT=DISK,RECORD=80,BLOCKING=5

FILE 6=QELITU,UNIT=DISK,RECORD=110,BLOCKING=10,LOCK

FILE 9=QELDTU,UNIT=DISK,RECORD=80,BLOCKING=5,LOCK

FILE 5=QELCTU,UNIT=READER

C

C

DIMENSION E(55),P(55),A(55),D(55,54),G(55),ALPHA(55,11)

C

C

C*****

C*

C* READ 1 CARD WITH FOLLOWING INFORMATION: *

C* COL CONTENTS *

C* 1-3 NUMBER OF CONCEPTS TO BE PROCESSED *

C* 4-6 SPACE *

C* 7-9 NUMBER OF 1ST CONCEPT TO BE PROCESSED *

C* 10-12 SPACE *

C* 13-15 NUMBER OF LAST CONCEPT TO BE PROCESSED *

C* 16-80 SPACE *

C*

C*****

C

C

READ(5,80)N,N1,N2

80 FORMAT(3(13,3X))

M=N-1

C

C

C PRINT EPA VALUES (INPUT DATA)

C

C

C

WRITE(6,108)

108 FORMAT(1X,"CONC",3X,"E",6X,"P",6X,"A"/" NO,"//)

109 FORMAT(///" THE DISTANCES BETWEEN THE CONCEPTS ARE SHOWN BELOW"/

1" FIRST GROUP OF ROWS SHOWS CONCEPT 01 AGAINST 02, 03, 04 ETC."/

2" SECOND GROUP OF ROWS SHOWS CONCEPT 02 AGAINST 03, 04, 05, ETC."/

3" THIRD GROUP SHOWS CONCEPT 03 AGAINST THE OTHERS. FOURTH GROUP="

4" CONCEPT 04 ETC, ="//

-16X,"2 3 4 5 6 7 8 9 10 11 12
- 13 14 15 16 ")

DO 5 I=1,N

NREC=N1 + I

READ(4=NREC,10)IC,E(I),P(I),A(I),(ALPHA(I,J),J=1,11)

WRITE(6,10)IC,E(I),P(I),A(I),(ALPHA(I,J),J=1,11)

5

C

C

C

C

C

C

PRINT HEADING FOR DISTANCE TABLE

WRITE(6,109)

10 FORMAT(1X,13,3F7.3,5X,11A1)

DO 15 I=1,M

DO 15 K=1,N

15 D(K,I) = 0.0

DO 20 K=1,M

```

      L=K+1
      DO 20 J=L,N
        I=J-1
20    D(K,I)=SQRT(((E(J)-E(K))**2)+((P(J)-P(K))**2)+((A(J)-A(K))**2))
        J=U

```

C
C
C
C
C
C
C

WRITE DISTANCE MATRIX TO DISK FILE (QELDTD)

PRINT OUT DISTANCE MATRIX

```

      DO 110 K=1,M
      DO 100 I=K,M
        J=J+1
        G(J)=D(K,I)
100    WRITE(9,601)G(J)
        ICON=N1+K-1
        L2=15
        DO 105 L=1,J,15
          IF(L2.GT.J)L2=J
          WRITE(6,602)ICON,(G(J1),J1=L,L2)
105    L2=L2+15
          WRITE(6,603)
110    J=0
601    FORMAT(F6.2)
602    FORMAT(1X,"CONC ",13,3X,15F6.2)
603    FORMAT(1X,/)
      CALL ZIP("CC EXECUTE QELOPD.")
      STOP
      END

```

```

P9  4104 P.M.      FORTIV COMPILER (76/239)
E  NUMBER: ASR 5.6      0 FLAGS      0 ERRORS
)  TIME    40 SECS      142 CARDS AT 213 C.P.M.
  " 0 DATA = 46836 TEMPORARIES = 72
  2332/ 2714 DIGITS

```

```

C
C*****
C*
C*
C*
C*      LRANK  GELONK = OBJECT FILE
C*      QELSNK = SOURCE FILE
C*
C*
C*      THIS PROGRAM RANKS THE D VALUES COMPUTED IN PROGRAM SDGPD
C*      (QELOPD) AND THE EPA DISTANCES COMPUTED IN PROGRAM SD2PTD
C*      (QELOTD). IT THEN COMPUTES THE SPEARMAN RANK CORRELATION
C*      COEFFICIENT FOR THE TWO GROUPS OF DATA. IT HANDLES A DISTANCE
C*      MATRIX FOR UP TO 55 CONCEPTS.
C*
C*      THE PROGRAM WAS DEVELOPED BY G.W.GOLDEN, B.L.METIVIER AND
C*      E.D.LANSON AT THE COMPUTER CENTER, STATE UNIVERSITY COLLEGE
C*      FREDONIA, NEW YORK, 14063.
C*
C*      DATA IS INPUT FROM 2 DISK FILES:
C*      QELDTU = CREATED BY PROGRAM SD2PTD (QELOTD)
C*      QELDPD = CREATED BY PROGRAM SDGPD (QELOPD)
C*
C*      BOTH FILES HAVE THE FOLLOWING FORMAT:
C*
C*      RECORD      CONTENTS
C*      1-(N-1)     DISTANCES BETWEEN THE 1ST CONCEPT AND CONCEPTS
C*                  2 TO N = XXX.XX
C*      N-(2N-3)    DISTANCES BETWEEN THE 2ND CONCEPT AND CONCEPTS
C*                  3 TO N = XXX.XX
C*
C*      .
C*      .
C*      N(N-1)/2    DISTANCE BETWEEN THE (N-1) CONCEPT AND CONCEPT N
C*
C*      OUTPUT FROM THIS PROGRAM IS A PRINT FILE GIVING THE INDICATED
C*      RESULTS PLUS THE 1ST 10 VALUES FROM EACH OF THE ABOVE INPUT
C*      FILES.
C*
C*      THE PROGRAM USES THE IBM SUBROUTINES RANK, TIE, AND SRANK.
C*      THESE SUBROUTINES WERE REPRINTED BY PERMISSION FROM SYSTEM
C*      1360 SCIENTIFIC SUBROUTINE PACKAGE (360A-CH-03X) VERSION
C*      III PROGRAMMER'S MANUAL, COPYRIGHT 1966, 1967, 1968 BY
C*      INTERNATIONAL BUSINESS MACHINES CORPORATION:
C*      RANK      PAGE 71
C*      TIE       PAGE 74
C*      SRANK     PAGE 73
C*
C*
C*****
IDENT LRANK
SEGMENT EXITF,TIE,ERRORI,ZIPMOI,WRITEI,SRANK,SGRT,RANK,ENDTII,EXIT,READI
SUMMARIZE ALL
FILE 7=QELDTU,UNIT=DISK,RECORD=80,BLOCKING=5
FILE 8=QELDPD,UNIT=DISK,RECORD=80,BLOCKING=5
FILE 6=QELINK,UNIT=DISK,RECORD=80,BLOCKING=5,LOCK
FILE 5=QELCNK,UNIT=READER

```



```
DIMENSION A(1485),B(1485),R(2970)
```

```

C
C
C*****
C*
C*      READ 1 CARD WITH FOLLOWING INFORMATION:
C*      COL      CONTENTS
C*      1-3      NUMBER OF CONCEPTS TO BE PROCESSED
C*      4-6      SPACE
C*      7-9      NUMBER OF 1ST CONCEPT TO BE PROCESSED
C*      10-12     SPACE
C*      13-15     NUMBER OF LAST CONCEPT TO BE PROCESSED
C*      16-80     SPACE
C*****
C
C

```

```

READ(5,970)K,K1,K2
WRITE(6,920)K,K1,K2
NR=0
N=(K*(K-1))/2

```

```

C
C
C*****
C*
C*      READ IN INPUT DATA
C*
C*      ARRAY A = FILE QELDTD
C*      ARRAY B = FILE QELOPD
C*****
C
C

```

```

DO 100 I=1,N
  READ(7,990) A(I)
100 READ(8,990) B(I)
  WRITE(6,960)K,K1,K2
  DO 200 I=1,10
200 WRITE(6,940)A(I),B(I)
    CALL SRANK (A,B,R,N,RS,T,NDF,NR)
    WRITE (6,900) RS,T,NDF
    CALL ZIP("EXECUTE GELOIN.")
    STOP
900 FORMAT ("O SPEARMAN RANK CORRELATION COEFFICIENT=",F5.2/
1" SIGNIFICANCE=",F8.3/" NUMBER OF DEGREES OF FREEDOM=",I5)
920 FORMAT(1X,3(13,3X))
940 FORMAT(1X,"A(I)=",F6.2,3X,"B(I)=",F6.2)
960 FORMAT(1X,"NO. OF CONCEPTS= ",I3," CONCEPT NO. ",I3," TO CONCEPT
1 NO. ",I3)
970 FORMAT(3(13,3X))
980 FORMAT (I2)
990 FORMAT ( F6.2)
END

```

```

C SUBROUTINE SRANK
C
C PURPOSE
C TEST CORRELATION BETWEEN TWO VARIABLES BY MEANS OF SPEARMAN
C RANK CORRELATION COEFFICIENT
C
C USAGE
C CALL SRANK(A,B,R,N,RS,T,NDF,NR)
C
C DESCRIPTION OF PARAMETERS
C A - INPUT VECTOR OF N OBSERVATIONS FOR FIRST VARIABLE
C B - INPUT VECTOR OF N OBSERVATIONS FOR SECOND VARIABLE
C R - OUTPUT VECTOR FOR RANKED DATA, LENGTH IS 2*N. SMALLEST
C OBSERVATION IS RANKED 1, LARGEST IS RANKED N. TIES
C ARE ASSIGNED AVERAGE OF TIED RANKS.
C N - NUMBER OF OBSERVATIONS
C RS - SPEARMAN RANK CORRELATION COEFFICIENT (OUTPUT)
C T - TEST OF SIGNIFICANCE OF RS (OUTPUT)
C NDF - NUMBER OF DEGREES OF FREEDOM (OUTPUT)
C NR - CODE, 0 FOR UNRANKED DATA IN A AND B, 1 FOR RANKED
C DATA IN A AND B (INPUT)
C
C REMARKS
C T IS SET TO ZERO IF N IS LESS THAN TEN
C
C SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED
C RANK
C TIE
C
C METHOD
C DESCRIBED IN S. SIEGEL, "NONPARAMETRIC STATISTICS FOR THE
C BEHAVIORAL SCIENCES", MCGRAW-HILL, NEW YORK, 1956,
C CHAPTER 9
C SUBROUTINE SRANK(A,B,R,N,RS,T,NDF,NR)
C DIMENSION A(1),B(1),R(1)
C
C FN=FLOAT(N)
C FN3=(FN**3)-FN
C
C DETERMINE WHETHER DATA IS RANKED
C
C IF(NR=1) 5, 10, 5
C
C RANK DATA IN A AND B VECTORS AND ASSIGN TIED OBSERVATIONS
C AVERAGE OF TIED RANKS
C
C NS=0
C 5 CALL RANK (A,R,N,RS,T,NDF,NS)
C NS=N
C CALL RANK (B,R,N,RS,T,NDF,NS)
C GO TO 40
C
C MOVE RANKED DATA TO R VECTOR
C
C 10 DO 20 I=1,N
C 20 R(I)=A(I)

```

```

      DO 30 I=1,N
      J=I+N
30 R(J)=B(I)
C
C      COMPUTE SUM OF SQUARES OF RANK DIFFERENCES
C
      40 D=0.0
      DO 50 I=1,N
      J=I+N
50 D=D+(R(I)-R(J))*(R(I)-R(J))
C
C      COMPUTE TIED SCORE INDEX
C
      KT=1
      NS=0
      CALL TIE (R,N,KT,TSA,NS)
      NS=N
      CALL TIE (R,N,KT,TSB,NS)
C
C      COMPUTE SPEARMAN RANK CORRELATION COEFFICIENT
C
      IF(TSA) 60,55,60
55 IF(TSB) 60,57,60
57 RS=1.0-0.0*D/FNNN
      GO TO 70
60 X=FNNN/12.0-TSA
      Y=X+TSA-TSB
      RS=(X+Y-D)/(2.0*(SQRT(X*Y)))
      WRITE(6,97)FNNN,X,Y,D
97 FORMAT(1X,"FNNN=",G10.4," X=",G10.4," Y=",G10.4," D=",G10.4)
C
C      COMPUTE T AND DEGREES OF FREEDOM IF N IS 10 OR LARGER
C
      T=0.0
70 IF(N=10) 80,75,75
75 CONTINUE
      T=RS*SQRT(FLOAT(N-2)/(1.0-RS*RS))
80 NDF=N-2
      RETURN
      END

```

```

79 4112 P.M.      FORTIV COMPILER (76/239)
E NUMBER: ASR 5.0      0 FLAGS      0 ERRORS
J TIME 15 SECS      96 CARDS AT 379 C.P.M.
  0 DATA 380 TEMPORARIES 56
1972/ 2346 DIGITS

```



```

C      SUBROUTINE TIE
C
C      PURPOSE
C      CALCULATE CORRECTION FACTOR DUE TO TIES
C
C      USAGE
C      CALL TIE(R,N,KT,T)
C
C      DESCRIPTION OF PARAMETERS
C      R - INPUT VECTOR OF RANKS OF LENGTH N CONTAINING VALUES
C          1 TO N
C      N - NUMBER OF RANKED VALUES
C      KT - INPUT CODE FOR CALCULATION OF CORRECTION FACTOR
C          1 SOLVE EQUATION 1
C          2 SOLVE EQUATION 2
C      T - CORRECTION FACTOR (OUTPUT)
C          EQUATION 1  $T = \text{SUM}(CT * (3 - CT)) / 12$ 
C          EQUATION 2  $T = \text{SUM}(CT * (CT - 1)) / 2$ 
C          WHERE CT IS THE NUMBER OF OBSERVATIONS TIED FOR A
C          GIVEN RANK
C
C      REMARKS
C      NONE
C
C      SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED
C      NONE
C
C      METHOD
C      VECTOR IS SEARCHED FOR SUCCESSIVELY LARGER RANKS. TIES ARE
C      COUNTED AND CORRECTION FACTOR 1 OR 2 SUMMED.
C
C      SUBROUTINE TIE(R,N,KT,T,NS)
C      DIMENSION R(1)
C
C      INITIALIZATION
C
C      T=0.0
C      Y=0.0
C      5 X=1.0E30
C      IND=0
C
C      FIND NEXT LARGEST RANK
C
C      DO 30 I=1,N
C      IF(R(NS+I)=Y) 30,30,10
C      10 IF(R(NS+I)=X) 20,30,30
C      20 X=R(NS+I)
C      IND=IND+1
C      30 CONTINUE
C
C      IF ALL RANKS HAVE BEEN TESTED, RETURN
C
C      IF(IND) 90,90,40
C      40 Y=X
C      CT=0.0

```

C
C
C

COUNT TIES

```

DO 60 I=1,N
IF(N(NS+1)-X) 60,50,60
50 CT=CT+1.0
60 CONTINUE

```

C
C
C

CALCULATE CORRECTION FACTOR

```

IF(CT) 70,5,70
70 IF(KT-1) 75,80,75
75 T=T+CT*(CT-1.)/2.0
GO TO 5
80 T=T+(CT*CT*CT-CT)/12.0
GO TO 5
90 CONTINUE
RETURN
END

```

```

79 4:12 P.M. FORTIV COMPILER (76/239)
E NUMBER1 ASR 5.0 0 FLAGS 0 ERRORS
) TIME 17 SECS 75 CARDS AT 266 C.P.M.
= 0 DATA = 128 TEMPORARIES = 32
764/ 950 DIGITS

```

```

C      RANK A VECTOR OF VAL
C      USAGE
C      CALL RANK(A,R,N)
C      DESCRIPTION OF PARAMETERS
C      A = INPUT VECTOR OF N VALUES
C      R = OUTPUT VECTOR OF LENGTH N. SMALLEST VALUE IS RANKED 1,
C          LARGEST IS RANKED N. TIES ARE ASSIGNED AVERAGE OF TIED
C          RANKS
C      N = NUMBER OF VALUES
C      REMARKS
C      NONE
C      SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED
C      NONE
C      METHOD
C      VECTOR IS SEARCHED FOR SUCCESSIVELY LARGER ELEMENTS. IF TIES
C      OCCUR, THEY ARE LOCATED AND THEIR RANK VALUE COMPUTED.
C      FOR EXAMPLE, IF 2 VALUES ARE TIED FOR SIXTH RANK, THEY ARE
C      ASSIGNED A RANK OF 6.5  $(=(6+7)/2)$ 
C      SUBROUTINE RANK(A,R,N,RS,T,NDF,NS)
C      DIMENSION A(1),R(1)
C
C      INITIALIZATION
C      DO 10 I=1,N
10 R(NS+I)=0.0
C
C      FIND RANK OF DATA
C
C      DO 100 I=1,N
C
C      TEST WHETHER DATA POINT IS ALREADY RANKED
C
C      IF(R(NS+I)) 20, 20, 100
C
C      DATA POINT TO BE RANKED
C
20 SMALL=0.0
   EQUAL=0.0
   X=A(I)
   DO 50 J=1,N
   IF(A(J)-X) 30, 40, 50
C      COUNT NUMBER OF DATA POINTS WHICH ARE SMALLER
C
C
30 SMALL=SMALL+1.0
   GO TO 50
C
C      COUNT NUMBER OF DATA POINTS WHICH ARE EQUAL
C
40 EQUAL=EQUAL+1.0
   R(NS+J)=1.0
50 CONTINUE
C
C      TEST FOR TIE
C
   IF(EQUAL=1.0) 60, 60, 70

```


C STORE RANK OF DATA POINT WHERE NO TIE

C

60 R(NS+I)=SMALL+1.0
GO TO 100

C

C

C

CALCULATE RANK OF TIED DATA POINTS

70 P=SMALL + (EQUAL + 1.0)*0.5
DO 90 J=1,N
IF(R(NS+J)+1.0) 90, 80, 90
80 R(NS+J)=P
90 CONTINUE
100 CONTINUE
RETURN
END

79 4:12 P.M. FORTIV COMPILER (76/239)
NUMBER: ASR 5.6 0 FLAGS 0 ERRORS
TIME 19 SECS 71 CARDS AT 219 C.P.M.
DATA 156 TEMPORARIES 32
1022/ 1270 DIGITS


```

C
300  READ(3,902,END=400)(ARRAY(I),I=1,90)
      WRITE(6,903)(ARRAY(I),I=1,90)
      GO TO 300

C
C      READ AND WRITE QELIPD
C
400  READ(4,904,END=500)(ARRAY(I),I=1,110)
      WRITE(6,905)(ARRAY(I),I=1,110)
      GO TO 400

C
C      READ AND WRITE QELDNK
C
500  READ(5,900,END=600)(ARRAY(I),I=1,80)
      WRITE(6,901)(ARRAY(I),I=1,80)
      GO TO 500

C
C      END OF REPORTS - REMOVE ALL UNNECESSARY FILES
C
C
600  DO 700 I=1,5
700  CALL CLOSE(I,2HFP)
      DO 800 I=7,10
          READ(I,900)
800  CALL CLOSE(I,2HFP)
      STOP

C
C
C*****
C*   FORMAT STATEMENTS
C*
900  FORMAT(80A1)
901  FORMAT(1X,80A1)
902  FORMAT(90A1)
903  FORMAT(1X,90A1)
904  FORMAT(110A1)
905  FORMAT(1X,110A1)

C*
C*
C*****
      END

```

```

79  4117 P.M.      FORTIV COMPILER (76/239)
E NUMBER: ASR 5.6      0 FLAGS      0 ERRORS
J TIME   28 SECS      97 CARDS AT 208 C.P.M.
"      0 DATA      1584 TEMPORARIES      0
1852/ 2084      DIGITS

```


QELSD = OBJECT

QELSSD = SOURCE

THIS PROGRAM COMPUTES OSGOOD D (DISTANCE) VALUES FOR EACH
RATED CONCEPT AND OTHER CONCEPTS ON THE SUBSCALES IN
PREPARATION FOR USE WITH THE WILCOXON OR OTHER RANK
STATISTICAL TEST.

THIS PROGRAM WAS DEVELOPED BY K. J. CHMURA, G. N. GOLDEN,
JR., B. L. METIVIER & E. D. LAWSON AT THE COMPUTER CENTER,
STATE UNIVERSITY COLLEGE, FREDONIA, N.Y. 14063.

THIS PROGRAM IS SET UP TO HANDLE 6 CONTROL CONCEPTS WHOSE
IDENT NUMBERS ARE THE LAST 6 NUMBERS OF THE CONCEPT LIST
(I.E. IF THERE ARE 106 CONCEPTS, THE RATED ONES ARE 101-106).
THE OUTPUT FILE WILL HANDLE UP TO 4200/M1 CASES (M1=NUMBER
OF NON-RATED CONCEPTS) FOR THESE 6 CONTROL CONCEPTS.

THE INPUT FILE (QELPPA) HAS THE FOLLOWING FORMAT:

RECORD	COL	CONTENTS
1	1-3	NUMBER OF CASES
	4-6	SPACE
	7-9	NUMBER OF CONCEPTS
	10-12	SPACE
	13-14	PRINT CODE (NOT USED BY THIS PROGRAM)
		01 - PRINTS MEANS AND MEANS DOUBLED
		02 - PRINTS MEANS, MEANS DOUBLED, SUM,
		SUM SQUARES, STANDARD DEVIATION,
		STANDARD ERROR OF THE MEANS
	15-17	SPACE
	18-20	IDENT NUMBER OF 1ST CASE
	21-23	SPACE
	24-26	IDENT NUMBER OF LAST CASE
2	1-3	CASE IDENT NUMBER - NUMERIC
3	1-3	CASE IDENT NUMBER
	4-6	CONCEPT IDENT NUMBER - NUMERIC
	7-17	CONCEPT NAME - ALPHA
	18-71	SPACE
	72-80	SUBSCALE SCORES - NUMERIC

REPEAT RECORD 3 AS NEEDED - 1 FOR EACH CONCEPT
(RECORDS NEEDED FOR ONE CASE).

REPEAT ABOVE GROUP - ONE FOR EACH CASE - ENDING
WITH A FINISH RECORD.

LAST 1-3 -99 (FINISH RECORD)

THE OUTPUT FILE (QELPSD) HAS THE FOLLOWING FORMAT:

RECORD	COL	CONTENYS
1	1-3	IDENT NO. FOR 1ST CONTROL CONCEPT
	4-6	IDENT NO. FOR 1ST NON-CONTROL CONCEPT
	7-16	OSGOOD D BETWEEN ABOVE 2 CONCEPTS
	17-19	BLANK
	20-30	NAME OF 1ST NON-CONTROL CONCEPT
2	1-3	IDENT NO. FOR 2ND CONTROL CONCEPT
	4-30	SAME AS ABOVE
3	1-3	IDENT NO. FOR 3RD CONTROL CONCEPT
	4-30	SAME AS ABOVE
4-6		SAME AS ABOVE ONLY FOR 4TH, 5TH, 6TH CONTROL CONCEPTS
7	1-3	IDENT NO. FOR 1ST CONTROL CONCEPT
	4-6	IDENT NO. FOR 2ND NON-CONTROL CONCEPT
	7-16	OSGOOD D BETWEEN ABOVE 2 CONCEPTS
	17-19	BLANK
	20-30	NAME OF 2ND NON-CONTROL CONCEPT
8	1-3	IDENT NO. FOR 2ND CONTROL CONCEPT
	4-30	SAME AS ABOVE (RECORD 7)
9-12		SAME AS ABOVE ONLY FOR 3RD, 4TH, 5TH, 6TH CONTROL CONCEPTS

REPEAT THESE GROUPS OF 6 RECORDS - ONE GROUP FOR EACH NON-CONTROL CONCEPT (RECORDS FOR 1 CASE).

REPEAT ABOVE GROUP (6 X M1 RECORDS) - 1 FOR EACH CASE.

M=TOTAL NUMBER OF CONCEPTS

M1=TOTAL NUMBER OF NON-CONTROL CONCEPTS

N=TOTAL NUMBER OF CASES

LTAG1=IDENT NUMBER OF 1ST CASE

LTAG2=IDENT NUMNER OF LAST CASE

```

*****
C
C
C SLST1
C IDENT SDINDD
C SUMMARIZE ALL
C FILE 6=QELISU,UNIT=PRINTER
C FILE 2=QELPPA,UNIT=DISKPACK,RECORD=80,BLOCKING=9,AREA=360
C FILE 7=QELPSU,UNIT=DISKPACK,RECORD=80,BLOCKING=9,AREA=1260,NAREA=20,
C 1LOCK
C DIMENSION BA(109,9),ALPHA(109,11),A(6)
C READ(2,901) N,M,LTAG1,LTAG2
C B=0
C M1=M-6
C
C
C FOR DEBUGGING PURPOSES ONLY, WRITE FILE IDENTIFICATION
C INFORMATION.
C
C WRITE(6,903)N,M,LTAG1,LTAG2

```

```

C      WRITE(6,920)M1
C
DO 230 I1=1,M
READ(2,902) ITAG
DO 103 I=1,M
READ(2,905) IC,(ALPHA(IC,J),J=1,11),(BA(IC,K),K=1,9)
DO 103 JJ=1,9,2
BA(IC,JJ)=B-BA(IC,JJ)
103 CONTINUE
M2=M1+1
DO 220 J=1,M1
DO 190 L=1,6
190 A(L)=0
DO 210 I=M2,M
L=I-M1
DO 200 K=1,9
B=(BA(I,K)-BA(J,K))*+2
200 A(L)=A(L)+B
A(L)=SQRT(A(L))
WRITE(7,900)I,J,A(L),(ALPHA(J,JJ),JJ=1,11)
210 CONTINUE
C
C      FOR DEBUGGING PURPOSES ONLY, WRITE CONCEPT NAME AND
C      CALCULATED DISTANCES.
C
C      WRITE(6,910)(ALPHA(J,JJ),JJ=1,11),(A(L),L=1,6)
220 CONTINUE
230 CONTINUE
STOP
900 FORMAT(2(I3),F10.5,3X,11A1)
901 FORMAT(2(I3,3X),2X,2(3X,I3))
902 FORMAT(I3)
903 FORMAT(1X,2(I3,3X),2X,2(3X,I3))
905 FORMAT(3X,I3,11A1,54X,9F1.0)
910 FORMAT(1X,11A1,6(4X,F10.5))
920 FORMAT(1X,"THE OSGOOD D VALUES FOR EACH CONTROL CONCEPT AND ",
113," OTHER CONCEPTS ARE SHOWN BELOW,"//3X,"CONCEPTS",9X,"GOOD",
211X,"BAD",9X,"STRONG",9X,"WEAK",9X,"ACTIVE",9X,"PASSIVE"//)
END

```

```

'9  4:21 P.M.      FORTIV COMPILER (76/239)
:  NUMBER: ASR 5.0      0 FLAGS      0 ERRORS
)  TIME    52 SECS      150 CARDS AT 173 C.P.M.
"    0 DATA = 2/140 TEMPORARIES = 12
1596/ 1874      DIGITS

```


QELOWL = OBJECT

QELSWL = SOURCE

THIS PROGRAM IS AN ADAPTATION OF THE HPAIR SUBROUTINE OF THE SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE OF THE WILCOXON TEST FOR USE WITH SEMANTIC DIFFERENTIAL DATA. THE PROGRAM TAKES DATA INPUT FROM PROGRAM SDYND (QELSD) AND MAKES A SERIES OF COMPARISONS. THIS PROGRAM WAS MODIFIED FOR USE WITH THE SEMANTIC DIFFERENTIAL BY G. W. GOLDEN, JR., B. L. METIVIER & E. D. LANSON AT THE COMPUTER CENTER, STATE UNIVERSITY COLLEGE, FREDONIA, N.Y. 14063.

THIS PROGRAM TESTS THE SIGNIFICANCE OF THE DISTANCE (CONVERTED INTO RANKS) AS A TWO-TAILED TEST BETWEEN ONE CONCEPT AND TWO OTHER CONCEPTS. THUS WHERE 101=CONCEPT GOOD AND 102=CONCEPT BAD WE ARE INTERESTED IN LEARNING WHETHER ANOTHER CONCEPT SUCH AS SELF=07 IS SIGNIFICANTLY CLOSER TO THE CONCEPT GOOD OR TO BAD.

THE PROGRAM IS NOW SET UP FOR COMPARISONS OF VARIABLES (CONCEPTS) TO GOOD VS BAD, STRONG VS WEAK, ACTIVE VS PASSIVE. OTHER CONCEPTS CAN, OF COURSE, BE SUBSTITUTED FOR THESE DEPENDING UPON THE DESIGN OF THE INVESTIGATOR. THE IDENT NUMBERS OF THE CONTROL CONCEPTS ARE THE LAST 6 NUMBERS OF THE CONCEPT LIST (I.E. IF THERE ARE 106 CONCEPTS, THE CONTROL CONCEPTS ARE 101-106). THE PROGRAM WILL HANDLE UP TO 109 CONCEPTS INCLUDING THE LAST SIX.

THE PROGRAM IS ALSO SET UP TO USE TWO INPUT FILES AND COMPARE THE DISTANCE BETWEEN ONE CONCEPT AND THE CONTROL CONCEPT IN THE FIRST FILE AND THE IDENTICAL CONCEPT AND CONTROL CONCEPT IN THE SECOND FILE. INITIALLY IT PROCESSES THE FIRST FILE AS DESCRIBED ABOVE AND THEN DOES THE SAME WITH THE SECOND FILE. THEN IT TAKES FROM EACH FILE THE DISTANCES BETWEEN EACH CONCEPT AND THE POSITIVE CONTROLS (I.E. GOOD, STRONG, ACTIVE) AND COMPARES LIKE CONCEPTS AS AS DESCRIBED ABOVE. FINALLY IT DOES THE SAME FOR THE DISTANCES BETWEEN THE CONCEPTS AND THE NEGATIVE CONTROLS (I.E. BAD, WEAK, PASSIVE).

THE PROGRAM CONTROL CARD TELLS THE PROGRAM WHICH PROCEDURE TO FOLLOW. IF THE WORDS "MALE" OR "FEMALE" ARE USED IN COLUMNS 13-18, THERE IS ONLY ONE INPUT FILE AND THE FIRST PROCEDURE IS USED. IF THERE IS A "2" IN COLUMN 3, THERE ARE 2 INPUT FILES AND THE SECOND PROCEDURE IS USED.

THE INPUT FILE (QELMWL OR QELFWL) HAS THE FOLLOWING FORMAT:

RECORD

COL

CONTENTS

C*	1	1-3	IDENT NO. FOR 1ST CONTROL CONCEPT
C*		4-6	IDENT NO. FOR 1ST NON-CONTROL CONCEPT
C*		7-16	OSGOOD D BETWEEN ABOVE 2 CONCEPTS
C*		17-19	BLANK
C*		20-30	NAME OF 1ST NON-CONTROL CONCEPT
C*	2	1-3	IDENT NO. FOR 2ND CONTROL CONCEPT
C*		4-30	SAME AS ABOVE
C*	3	1-3	IDENT NO. FOR 3RD CONTROL CONCEPT
C*		4-30	SAME AS ABOVE
C*	4-6		SAME AS ABOVE ONLY FOR 4TH, 5TH, 6TH
C*			CONTROL CONCEPTS
C*	7	1-3	IDENT NO. FOR 1ST CONTROL CONCEPT
C*		4-6	IDENT NO. FOR 2ND NON-CONTROL CONCEPT
C*		7-16	OSGOOD D BETWEEN ABOVE 2 CONCEPTS
C*		17-19	BLANK
C*		20-30	NAME OF 2ND NON-CONTROL CONCEPT
C*	8	1-3	IDENT NO. FOR 2ND CONTROL CONCEPT
C*		4-30	SAME AS ABOVE (RECORD 7)
C*	9-12		SAME AS ABOVE ONLY FOR 3RD, 4TH, 5TH,
C*			6TH CONTROL CONCEPTS

REPEAT THESE GROUPS OF 6 RECORDS - ONE GROUP FOR EACH NON-CONTROL CONCEPT (RECORDS FOR 1 CASE).

REPEAT ABOVE GROUP (6 X M1 RECORDS) - 1 FOR EACH CASE.

THE OUTPUT FILE (GELOWL) HAS THE FOLLOWING FORMAT:

RECORD	COL	CONTENTS
1	1-3	CONCEPT IDENT NUMBER
	4	BLANK
	5-15	CONCEPT NAME
	16-22	P FOR GOOD VS BAD
	23-29	Z FOR GOOD VS BAD
	30-33	T FOR GOOD VS BAD
	34-36	+ OR -
	37-57	P, Z, T, + OR - (AS ABOVE) FOR STRONG VS WEAK
	58-78	P, Z, T, + OR - (AS ABOVE) FOR ACTIVE VS PASSIVE

REPEAT THIS RECORD - ONE FOR EACH NON-CONTROL CONCEPT.

THE PROGRAM CONTROL CARD HAS THE FOLLOWING FORMAT:

COL	CONTENTS
1-3	TOTAL NUMBER OF CASES
4-6	BLANK
7-9	TOTAL NUMBER OF CONCEPTS
10-12	BLANK
13-19	"FEMALE", "MALE", OR "2"
	FEMALE - ONE INPUT FILE WITH FEMALE RESPONSES
	TEST DISTANCES BETWEEN EACH CONCEPT
	AND PAIRS OF CONTROL CONCEPTS.

MALE = SAME AS ABOVE USING MALE RESPONSES
 2 = TWO INPUT FILES, MALE AND FEMALE
 PROCESS EACH FILE INDIVIDUALLY AS
 ABOVE FIRST. THEN COMPARE ONE FILE
 AGAINST THE OTHER FIRST WITH POSITIVE
 CONTROL CONCEPTS, THEN WITH NEGATIVE
 CONTROL CONCEPTS.

NOTE:

A NEGATIVE SIGN MEANS THAT THE COMPARED CONCEPT IS
 CLOSER TO THE FIRST OF THE TWO CONTROL CONCEPTS.

P = PROBABILITY OF BEING LESS THAN (TWO-TAILED TEST)

Z = STANDARD SCORE

T = SUM OF RANKS + OR - DIFFERENCES WHICHEVER IS
 SMALLER

M=TOTAL NUMBER OF CONCEPTS

M1=TOTAL NUMBER OF NON-CONTROL CONCEPTS

N=TOTAL NUMBER OF CASES

CNTL=2 OR MALE OR FEMALE FROM PROGRAM CONTROL
 CARD ABOVE

THE FOLLOWING SUBROUTINE WERE REPRINTED BY PERMISSION FROM
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RANK PAGE 71

NDTR PAGE 78

MPAIR PAGE 70

IDENT 30N1L

SUMMARIZE ALL

FILE 3=QELMHL,UNIT=DISKPACK,RECORD=80,BLOCKING=9,AREA=1260

FILE 4=QELFWL,UNIT=DISKPACK,RECORD=80,BLOCKING=9,AREA=1260

FILE 5=QELCNL,UNIT=READER

FILE 6=QELMLE,UNIT=DISK,RECORD=80,BLOCKING=5,LOCK

FILE 7=QELFEL,UNIT=DISK,RECORD=80,BLOCKING=5,LOCK

FILE 8=QELHFL,UNIT=DISK,RECORD=80,BLOCKING=5,LOCK

FILE 9=QELHF2,UNIT=DISK,RECORD=80,BLOCKING=5,LOCK

FILE 10=QELMEN,UNIT=PRINTER

FILE 11=QELWOM,UNIT=PRINTER

FILE 12=QELMFP,UNIT=PRINTER

FILE 13=QELHFN,UNIT=PRINTER

FILE 14=QELERR,UNIT=PRINTER

INTEGER G,C,F,KEY,CNTL

DIMENSION A(50),B(50),D(50),E(50),L(50),S(12),SN(2),ALPHA(11),

1CNTL(7),LABEL(7)


```

C      DATA SN/3H  =,3H  +/KEY/O/LABEL/"F","E","M","A","L","E","S"/
C
C      READ PROGRAM CONTROL CARD
C
C      READ (5,960) N,M,CNTL
C      NI=M-6
C
C      IF CNTL=2, THERE ARE 2 INPUT FILES - MALE-FEMALE COMPARISON
C
C      IF(CNTL(1).EQ."2")GO TO 170
C      IF(CNTL(1).EQ."M")GO TO 150
C      ONE INPUT FILE - CORRELATION OF FEMALE RATINGS AGAINST
C      PAIRS OF CONTROL CONCEPTS
70  NUP=11
    NUD=7
    NI1=4
    NI2=4
75  WRITE(NUP,940)CNTL
80  WRITE(NUP,970)
89  WRITE(NUP,910)
    DO 105 F=1,NI
      G=(-3)
C
C      READ IN CONCEPT NAME
C
C      READ(NI1,920)(ALPHA(JJ),JJ=1,11)
C      REREAD
C      DO 100 J=1,5,2
C
C      READ IN OSGOOD D VALUES
C
C      READ(NI1,990)(A(I),I=1,N)
C      READ(NI2,990)(B(I),I=1,N)
C
C      FOR DEBUGGING PURPOSES ONLY, PRINT ARRAYS A AND B FOR THE
C      FIRST CORRELATION FOR EACH CONCEPT.
C
C      IF(J.EQ.1)WRITE(14,995)(A(I),B(I),I=1,N)
C      CALL MP  (N,A,B,K,T,Z,P,D,E,L,IE,KA)
C      P=(1.0-P)*2.0
C      BB=SN(KA)
C      G=G+4
C      S(G)=P
C      S(G+1)=Z
C      S(G+2)=T
C      S(G+3)=BB
C      IF (KEY.LT.3)GO TO 100
C      DO 95 I=1,N
C      READ (NI1,990,END=100)
95  READ(NI2,990)
100 CONTINUE
    WRITE(NUP,980)F,(ALPHA(JJ),JJ=1,11),(S(LL),LL=1,12)
    WRITE(NUD,904)F,(ALPHA(JJ),JJ=1,11),(S(LL),LL=1,12)
105 CONTINUE
    WRITE(NUP,950)
    IF (KEY.EQ.0)GO TO 110

```

```

      GO TO (200,300,400,110)KEY
110  STOP
C
C      ONE INPUT FILE - CORRELATION OF MALE RATINGS AGAINST
C      PAIRS OF CONTROL CONCEPTS
C
150  NUP=10
      NUD=6
      NI1=3
      NI2=3
      GO TO 75
C
C      2 INPUT FILES - MALE-FEMALE COMPARISON
C      PROCESS MALE FILE FIRST - EACH CONCEPT AGAINST CONTROL PAIRS
C
170  KEY=KEY+1
      DO 175 I=1,5
175  CNTL(I)=LABEL(I+2)
      GO TO 150
C
C      2 INPUT FILES - MALE-FEMALE COMPARISON
C      PROCESS FEMALE FILE - EACH CONCEPT AGAINST CONTROL PAIRS
C
200  KEY=KEY+1
      DO 210 I=1,7
210  CNTL(I)=LABEL(I)
      GO TO 70
C
C      PROCESS MALE AND FEMALE FILES - EACH CONCEPT AGAINST POSITIVE
C      CONTROL CONCEPTS - GOOD,STRONG,ACTIVE
C
300  REWIND 3
      REWIND 4
      NI1=3
      KEY=KEY+1
      NUP=12
      NUD=6
      WRITE(NUP,900)(LABEL(J),J=3,7),(LABEL(J),J=1,7)
      WRITE(NUP,901)
      GO TO 89
C
C      PROCESS MALE AND FEMALE FILES - EACH CONCEPT AGAINST NEGATIVE
C      CONTROL CONCEPTS - BAD,WEAK,PASSIVE
C
400  KEY=KEY+1
      REWIND 3
      REWIND 4
      NUP=13
      NUD=9
      DO 410 I=1,N
        READ(NI1,990)
410  READ(NI2,990)
        WRITE(NUP,902)(LABEL(J),J=3,7),LABEL
        WRITE(NUP,903)
      GO TO 89
900  FORMAT(1X,"ANALYSIS OF RESPONSES - POSITIVE - ",5A1," VS ",7A1///)

```

```

901 FORMAT(34X,"GOOD",24X,"STRONG",26X,"ACTIVE",/)
902 FORMAT(1X,"ANALYSIS OF RESPONSES - NEGATIVE = ",5A1," VS ",7A1,/)
903 FORMAT(35X,"BAD",25X,"WEAK",27X,"PASSIVE",/)
904 FORMAT(13,1X,11A1,3(F7.5,F7.5,F4.0,A3))
905 FORMAT(/)
910 FORMAT(5X,"CONCEPT",5X,3(10X,"P",7X,"Z",4X,"T",2X,"SIGN"),/)
920 FORMAT(19X,11A1)
930 FORMAT(1X,"A(",11,"")=",F10.5,3X,"B(",11,"")=",F10.5)
940 FORMAT(1X,"ANALYSIS OF RESPONSES BY ",7A1,/)
950 FORMAT(///" NOTE A NEGATIVE SIGN MEANS THAT THE COMPARED CONCEPT
  -IS CLOSER TO THE FIRST OF THE TWO COMPARISON CONCEPTS."//
  -" P = PROBABILITY OF BEING LESS THAN (TWO-TAILED TEST)"//
  -" Z = STANDARD SCORE"// " T = SUM OF RANKS + OR - DIFFERENCES
  -WHICHEVER IS SMALLER")
960 FORMAT(2(13,3X),7A1)
970 FORMAT(30X,"GOOD VS BAD",17X,"STRONG VS WEAK",16X,"ACTIVE VS PASSI
  VE",/)
980 FORMAT(1X,13," ",11A1,3(5X,F8.5,F8.5,F5.0,A4))
990 FORMAT(6X,F10.5)
995 FORMAT(1X,F10.5,5X,F10.5)
  END

```

```

9 3147 P.M. FORTIV COMPILER (78/333)
NUMBER: ASR 6.2 0 FLAGS 0 ERRORS
TIME 34 SECS 301 CARDS AT 531 C.P.M.
0 DATA = 5844 TEMPORARIES = 12
3908/ 4496 DIGITS

```



```

SUBROUTINE HP (N,A,B,K,T,Z,P,D,E,L,IE,KA)
DIMENSION A(1),B(1),D(1),E(1),L(1)
IE=0
K=N
C      FIND DIFFERENCES OF MATCHED PAIRS
      BIG=0.0
      DO 55 I=1,N
      DIF=A(I)-B(I)
      IF (DIF) 10, 20, 30
C      DIFFERENCE HAS A NEGATIVE SIGN (-)
10  L(I)=1
      GO TO 40
C      DIFFERENCE IS ZERO (0)
20  L(I)=2
      K=K-1
      GO TO 40
C      DIFFERENCE HAS A POSITIVE SIGN(+)
30  L(I)=3
40  DIF=ABS(DIF)
      IF(BIG-DIF) 45, 50, 50
45  BIG=DIF
50  D(I)=DIF
55  CONTINUE
      IF(K) 57,57,59
57  IE=1
      T=0.0
      Z=-1.0E75
      P=0
      GO TO 100
C      STORE A LARGE VALUE IN PLACE OF 0 DIFFERENCE IN ORDER TO
C      ASSIGN A LARGE RANK (LARGER THAN K), SO THAT ABSOLUTE VALUES
C      OF SIGNED DIFFERENCES WILL BE PROPERLY RANKED
59  BIG=BIG*2.0
      DO 65 I=1,N
      IF(L(I)=2) 65, 60, 65
60  D(I)=BIG
65  CONTINUE
      CALL RANK (U,E,N)
C      FIND SUMS OF (+) DIFFERENCES AND (-) DIFFERENCES
      SUMP=0.0
      SUMM=0.0
      DO 80 I=1,N
      IF(L(I)=2) 70, 80, 75
70  SUMM=SUMM+E(I)
      GO TO 80
75  SUMP=SUMP+E(I)
80  CONTINUE
C      SET 1 = SMALLER SUM
      IF(SUMP-SUMM) 85, 85, 90
85  T=SUMP
      KA=1
      GO TO 95
90  T=SUMM
      KA=2
C      COMPUTE MEAN, STANDARD DEVIATION, AND 4
95  FK=K

```

```

C      WRITE(6,97)T,FK,SUMM,SUMP,(L(I),I=1,N),(O(I),I=1,N),(E(I),I=1,N)
97  FORMAT(1X,"T=",F4.1,3X,"FK=",F4.0,3X,"SUMM=",F6.2,3X,"SUMP=",
1F6.2,3X,"L(1)=",5(I1,2X)/1X,"O(1)=",5(F8.3),3X,"E(1)=",
25(F5.2))
      U=FK*(FK+1.0)/4.0
      S=SQRT((FK*(FK+1.0)+(2.0*FK+1.0))/24.0)
      Z=ABS((T-U)/S)
C      COMPUTE THE PROBABILITY OF A VALUE AS EXTREME AS Z
C      WRITE(6,98)U,S,Z
98  FORMAT(1X,"U=",F10.5,3X,"S=",F10.5,3X,"Z=",F10.5)
      CALL NDTR (Z,P,BIG)
100 RETURN
      END

```

```

79  4130 P.M.      FORTIV COMPILER (76/239)
E NUMBER: ASR 5.6      0 FLAGS      0 ERRORS
) TIME      16 SECS      69 CARDS AT 256 C.P.M.
  0 DATA =      644 TEMPORARIES =      32
1758/ 2152      DIGITS

```

SUBROUTINE NDTR(X,P,D)

SUBROUTINE NDTR

PURPOSE

COMPUTES $Y=P(X)$ =PROBABILITY THAT THE RANDOM VARIABLE U,
DISTRIBUTED NORMALLY (0,1), IS LESS THAN OR EQUAL TO X.
 $F(X)$, THE ORDINATE OF THE NORMAL DENSITY AT X, IS ALSO
COMPUTED.

USAGE

CALL NDTR(X,P,D)

DESCRIPTION OF PARAMETERS

X--INPUT SCALAR FOR WHICH $P(X)$ IS COMPUTED

P--OUTPUT PROBABILITY.

D--OUTPUT DENSITY

REMARKS

MAXIMUM ERROR IS 0.0000007.

METHOD

BASED ON APPROXIMATIONS IN C. HASTINGS, APPROXIMATIONS FOR
DIGITAL COMPUTERS, PRINCETON U. PRESS, 1955. SEE EQUATION
26.2.17, HANDBOOK OF MATHEMATICAL FUNCTIONS, ABROMOWITZ &
STEGUN, DOVER.

```

C      AX=ABS(X)
C      T=1.0/(1.0+.2316419*AX)
C      D=0.3989423*EXP(-X*X/2.0)
C      P=1.0-D*T*(((1.330274+T-1.821256)*T+1.761478)*T-
1  0.3565638)*T+0.3193815)
C      WRITE(6,90)AX,T,D,P
90  FORMAT(1X,"AX=2",F10.5,3X,"T=",F10.5,3X,"D=",F10.5,3X,
1  "P=",F10.5)
1  IF(X)1,2,2
1  P=1.0-P
2  RETURN
END

```

79 4:30 P.M. FORTIV COMPILER (76/239)
 E NUMBER: ASR 5.6 0 FLAGS 0 ERRORS
 J TIME 7 SECS 43 CARDS AT 391 C.P.M.
 " 0 DATA " 240 TEMPORARIES " 20
 322/ 394 DIGITS


```

C      RANK A VECTOR OF VAL
C      USAGE
C      CALL RANK(A,R,N)
C      DESCRIPTION OF PARAMETERS
C      A = INPUT VECTOR OF N VALUES
C      R = OUTPUT VECTOR OF LENGTH N. SMALLEST VALUE IS RANKED 1,
C          LARGEST IS RANKED N. TIES ARE ASSIGNED AVERAGE OF TIED
C          RANKS
C      N = NUMBER OF VALUES
C      REMARKS
C      NONE
C      SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED
C      NONE
C      METHOD
C      VECTOR IS SEARCHED FOR SUCCESSIVELY LARGER ELEMENTS. IF TIES
C      OCCUR, THEY ARE LOCATED AND THEIR RANK VALUE COMPUTED.
C      FOR EXAMPLE, IF 2 VALUES ARE TIED FOR SIXTH RANK, THEY ARE
C      ASSIGNED A RANK OF 6.5  $((6+7)/2)$ 
C      SUBROUTINE RANK(A,R,N)
C          DIMENSION A(1),R(1)
C
C          INITIALIZATION
C          DO 10 I=1,N
10      R(I)=0.0
C
C          FIND RANK OF DATA
C
C          DO 100 I=1,N
C
C          TEST WHETHER DATA POINT IS ALREADY RANKED
C
C          IF(R(I)) 20, 20, 100
C
C          DATA POINT TO BE RANKED
C
C          20 SMALL=0.0
C          EQUAL=0.0
C          X=A(I)
C          DO 50 J=1,N
C          IF(A(J)=X) 30, 40, 50
C          COUNT NUMBER OF DATA POINTS WHICH ARE SMALLER
C
C          30 SMALL=SMALL+1.0
C          GO TO 50
C
C          COUNT NUMBER OF DATA POINTS WHICH ARE EQUAL
C
C          40 EQUAL=EQUAL+1.0
C          R(J)=1.0
C          50 CONTINUE
C
C          TEST FOR TIE
C
C          IF(EQUAL=1.0) 60, 60, 70
C

```

C STORE RANK OF DATA POINT WHERE NO TIE
C

60 R(I)=SMALL+1.0
80 TO 100

C CALCULATE RANK OF TIED DATA POINTS
C
C

70 P=SMALL + (EQUAL + 1.0)*0.5
DO 90 J=I,N
IF(R(J)+1.0) 90, 80, 90
80 R(J)=P
90 CONTINUE
100 CONTINUE
RETURN
END

19 4130 P.M. FORTIV COMPILER (76/239)
NUMBER: ASR 5.6 0 FLAGS 0 ERRORS
TIME 14 SECS 71 CARDS AT 299 C.P.M.
" 0 DATA 156 TEMPORARIES 24
942/ 1170 DIGITS

SOREAD QELORD = OBJECT FILE
QELSRD = SOURCE FILE

THIS PROGRAM READS IN THE INPUT DATA FOR THE SEMANTIC DIFFERENTIAL PROGRAMS AND STORES IT IN A DISKPACK FILE. THE INPUT DATA IS A CARD FILE (QELCRD) AND IS IN THE SAME FORMAT AS THE OUTPUT FILE. IF THE CONCEPTS GOOD, BAD, STRONG, WEAK, ACTIVE, PASSIVE HAVE IDENT NUMBERS OF A,B,C,D,E,F, THESE ARE CHANGED TO N-5, N-4, N-3, N-2, N-1, N WITH N BEING THE TOTAL NUMBER OF CONCEPTS.

THE OUTPUT DATA IS A DISKPACK FILE (QELPPA) CONTAINING THE FOLLOWING INFORMATION:

RECORD	COL	CONTENTS
1	1-3	NUMBER OF CASES
	4-6	SPACE
	7-9	NUMBER OF CONCEPTS
	10-12	SPACE
	13-14	PRINT CODE
		01 = PRINTS MEANS AND MEANS DOUBLED
		02 = PRINTS MEANS, MEANS DOUBLED, SUM,
		SUM SQUARES, STANDARD DEVIATION,
		STANDARD ERROR OF THE MEANS
	15-17	SPACE
	18-20	IDENT NUMBER OF 1ST CASE
	21-23	SPACE
	24-26	IDENT NUMBER OF LAST CASE
2	1-3	CASE IDENT NUMBER = NUMERIC
3	1-3	CASE IDENT NUMBER
	4-6	CONCEPT IDENT NUMBER = NUMERIC
	7-17	CONCEPT NAME = ALPHA
	18-71	SPACE
	72-80	SUBSCALE SCORES = NUMERIC

REPEAT RECORD 3 AS NEEDED = 1 FOR EACH CONCEPT

REPEAT THIS RECORD GROUP, ONE FOR EACH CASE, ENDING WITH A FINISH RECORD FOLLOWING THE LAST CONCEPT OF THE LAST CASE. (GROUP=RECORDS 2 AND 3)

LAST 1-3 -99

WHEN THIS PROGRAM IS FINISHED, IT AUTOMATICALLY CALLS PROGRAM SDEPA (QELOPA).

SLST1


```

IDENT 3DREAD
SUMMARIZE ALL
FILE 8=QELPPA,UNIT=DISKPACK,RECORD=80,BLOCKING=9,AREA=360,LOCK
FILE 6=QELERN,UNIT=PRINTER
FILE 5=QELCRU,UNIT=READER
DIMENSION ALPHA(3),BETA(6),WORD(11),ICONC(9)
DATA BETA/"A","B","C","D","E","F"/

```

```

C
C
C      READ RUN DESCRIPTION CARD = # OF CASES, # OF CONCEPTS,
C      PRINT CODE, CASE IDENT NUMBERS (1ST AND LAST)
C

```

```

      READ(5,903)L,N,IPSW,LTAG1,LTAG2
      WRITE(8,903)L,N,IPSW,LTAG1,LTAG2
      INERR=0
      M=N-6

```

```

      DO 205 J1=0,L
100  READ(5,900,END=600)NCASE,ALPHA,WORD,ICONC

```

```

C
C
C      CHECK FOR FINISH CARD
C

```

```

120  WRITE(8,900)NCASE,ALPHA,WORD,ICONC
      IF(NCASE.EQ.-99)GO TO 600

```

```

C
C
C      IF NOT CASE IDENT CARD, GO TO ERROR ROUTINE
C

```

```

      IF(ALPHA(3).EQ.' ')GO TO 140

```

```

C
C
C      ERROR ON CASE IDENT CARD - CONCEPT NUMBER NOT BLANK
C
C      WRITE ERROR MESSAGE
C      ADD TO ERROR COUNT
C

```

```

400  WRITE(6,904)NCASE,IDENT,ALPHA
      INERR=INERR+1

```

```

C
C
C      CHECK TO SEE IF START OF NEW CASE
C

```

```

      IF (NCASE.EQ.IDENT)GO TO 100
      GO TO 140

```

```

C
C
C      READ DATA CARDS
C

```

```

140  DO 205 J=1,N
      READ(5,900,END=600)IDENT,ALPHA,WORD,ICONC

```

С
С
С
С
С
С
С

CCC

CCCCC

С
С
С

CCC

CCCCC

1997

```

C* .....
C*
C*          SDEPA    QELOPA -OBJECT
C*          QELSPA -SOURCE
C*
C*
C* THIS PROGRAM IS FOR THE OSGOOD SEMANTIC DIFFERENTIAL
C* IT COMPUTES EPA SCORES (EVALUATION, POTENCY, ACTIVITY)
C* BASED UPON SCORES OF SELECTED SUBSCALES, SCORES ARE
C* AVERAGED.
C*
C* THE PROGRAM CAN ALSO COMPUTE THE SUM, SUMS OF SQUARES,
C* THE STANDARD DEVIATIONS, STANDARD ERROR OF THE MEAN
C* IF THESE ARE NEEDED. SEE BELOW FIRST RECORD OF INPUT
C* FILE.
C*
C* THIS PROGRAM WAS DEVELOPED BY G.H.GOLDEN, B.L.METIVIER
C* AND E.D.LAWSON AT THE COMPUTER CENTER, STATE UNIVERSITY
C* COLLEGE, FREDONIA, NEW YORK, 14063. IT WILL PROCESS
C* UP TO AND INCLUDING 109 CONCEPTS.
C*
C* VARIABLES N1 THRU N9 CONTAIN SUBSCALE NUMBERS OF
C* VARIABLES COMPOSING AVERAGE E-VALUE, P-VALUE, A-VALUE.
C*      N1=1ST E SUBSCALE NUMBER
C*      N2=2ND E SUBSCALE NUMBER
C*      N3=3RD E SUBSCALE NUMBER
C*      N4=1ST P SUBSCALE NUMBER
C*      N5=2ND P SUBSCALE NUMBER
C*      N6=3RD P SUBSCALE NUMBER
C*      N7=1ST A SUBSCALE NUMBER
C*      N8=2ND A SUBSCALE NUMBER
C*      N9=3RD A SUBSCALE NUMBER
C*
C* THE INPUT DATA IS A DISKPACK FILE (QELPPA) CONTAINING
C* THE FOLLOWING INFORMATION:
C*
C* RECORD      COL      CONTENTS
C*   1          1-3      NUMBER OF CASES
C*                4-6      SPACE
C*                7-9      NUMBER OF CONCEPTS
C*               10-12     SPACE
C*               13-14     PRINT CODE
C*                        01 - PRINTS MEANS AND MEANS DOUBLED
C*                        02 - PRINTS MEANS, MEANS DOUBLED, SUM,
C*                           SUM SQUARES, STANDARD DEVIATION,
C*                           STANDARD ERROR OF THE MEANS
C*               15-17     SPACE
C*               18-20     IDENT NUMBER OF 1ST CASE
C*               21-23     SPACE
C*               24-26     IDENT NUMBER OF LAST CASE
C*
C*   2          1-3      CASE IDENT NUMBER - NUMERIC
C*   3          1-3      CASE IDENT NUMBER
C*                4-6      CONCEPT IDENT NUMBER - NUMERIC

```


CCCC

[illegible]

```

C*      FOLLOWING FORMAT:
C*      RECORD    COLS    CONTENTS
C*      1          1-3    NUMBER OF CONCEPTS - NUMERIC
C*      2          1      SPACE
C*      2-4        5-11    CONCEPT IDENT NUMBER
C*      12-18      19-25    MEAN OF E
C*      26-30      31-41    MEAN OF P
C*      31-41      SPACE
C*      3 = (N+1)    CONCEPT NAME - ALPHA
C*                      SAME AS RECORD 2 - ONE FOR EACH
C*                      CONCEPT
C*****
C
C      WRITE(3,197)ITAG
197  FORMAT(1H1,' FOR ID NUMBER ',I4//)
      WRITE(3,97)
      97  FORMAT(//////,1X,'THE MEANS ARE',/7X'E'6X'P'6X'A'//)
      WRITE(9,1001)N
      WRITE(3,100)(IC,(MEANS(IC,J),J=1,3),(ALPHA(IC,K),K=1,11),IC=1,N)
      WRITE(9,900)(IC,(MEANS(IC,J),J=1,3),(ALPHA(IC,K),K=1,11),IC=1,N)
      900  FORMAT(1X,I3,3F7,3,5X,11A1)
      100  FORMAT(1X,I3,'-',3F8,3,5X,11A1)
      DO 50 J=1,N
      DO 50 M=1,3
50    MEANS2(J,M)=MEANS(J,M)*2.0
      WRITE(3,970)
      970  FORMAT(//////,1X,'THE MEANS DOUBLED ARE',/7X'E'6X'P'6X'A'//)
      WRITE(3,100)(IC,(MEANS2(IC,J),J=1,3),(ALPHA(IC,K),K=1,11),IC=1,N)
      102  FORMAT(1X,I3,3F7,3)
      1001  FORMAT(I3)
      GO TO (J01,J00) IPSW
C      SUMS
300  WRITE(3,96)
      96  FORMAT(//////,1X,'THE SUMS ARE',/)
      WRITE(3,100)(IC,(NSUM(IC,J),J=1,03),(ALPHA(IC,K),K=1,11),IC=1,N)
      201  FORMAT(1X,I2,'-',3F6,0)
C      SUMS OF THE SQUARES
      WRITE(3,95)
      95  FORMAT(//////,1X,'THE SUMS OF THE SQUARES ARE',/)
      WRITE(3,100)(IC,(NSMSQ(IC,J),J=1,03),(ALPHA(IC,K),K=1,11),IC=1,N)
      90  FORMAT(1X,I2,'-',3F8,0)
C      STANDARD DEVIATIONS
      WRITE(3,94)
      94  FORMAT(//////,1X,'THE STANDARD DEVIATIONS ARE',/)
      WRITE(3,100)(IC,(STDEV(IC,J),J=1,03),(ALPHA(IC,K),K=1,11),IC=1,N)
      WRITE(3,93)
      93  FORMAT(//////,1X,'THE STANDARD ERRORS OF THE MEANS ARE',/)
      WRITE(3,100)(IC,(SEDM(IC,J),J=1,03),(ALPHA(IC,K),K=1,11),IC=1,N)
      199  CALL ZIP('CC EXECUTE QELOSH,')
      STOP
      301  GO TO 5
      END

```



```
C*****C
C      SOMSM QELOSH = OBJECT FILE
C      QELSSM = SOURCE FILE
C
C      THIS PROGRAM COMPUTES THE MEAN, THE SUM, THE SUMS OF
C      SQUARES, THE STANDARD DEVIATIONS, STANDARD ERRORS OF THE
C      MEANS FOR SUB-SCALES 1-9 ON THE OSGOOD SEMANTIC DIFFEREN-
C      TIAL. IT WILL PROCESS UP TO AND INCLUDING 109 CONCEPTS
C      AND WILL PRINT OUT RESULTS ACCORDING TO PRINT CODE
C      DESCRIBED BELOW.
C
C      THE PROGRAM WAS DEVELOPED BY E.D.LAWSON, G.H.GOLDEN, K.F.
C      CHMURA, B.L.METIVIER AT THE COMPUTER CENTER, STATE
C      UNIVERSITY COLLEGE, FREDONIA, NEW YORK, 14063.
C
C      THE INPUT DATA IS A DISKPACK FILE (QELPPA) CONTAINING
C      THE FOLLOWING INFORMATION:
C
C      RECORD      COL      CONTENTS
C      1           1-3      NUMBER OF CASES
C          4-6      SPACE
C          7-9      NUMBER OF CONCEPTS
C          10-12    SPACE
C          13-14    PRINT CODE
C                   01 - PRINTS MEANS AND MEANS DOUBLED
C                   02 - PRINTS MEANS, MEANS DOUBLED, SUM,
C                       SUM SQUARES, STANDARD DEVIATION,
C                       STANDARD ERROR OF THE MEANS
C          15-17    SPACE
C          18-20    IDENT NUMBER OF 1ST CASE
C          21-23    SPACE
C          24-26    IDENT NUMBER OF LAST CASE
C
C      2           1-3      CASE IDENT NUMBER = NUMERIC
C      3           1-3      CASE IDENT NUMBER
C          4-6      CONCEPT IDENT NUMBER = NUMERIC
C          7-17     CONCEPT NAME = ALPHA
C          18-71    SPACE
C          72-80    SUBSCALE SCORES = NUMERIC
C
C      REPEAT RECORD 3 AS NEEDED - 1 FOR EACH CONCEPT
C
C      REPEAT THIS RECORD GROUP, ONE FOR EACH CASE, ENDING
C      WITH A FINISH RECORD FOLLOWING THE LAST CONCEPT OF
C      THE LAST CASE. (GROUP=RECORDS 2 AND 3)
C
C      LAST       1-3      -99
C*****C
```

```

C
SLST1
IDENT SDMSH
SEGMENT EXIT1,ZIPHO1,EXPO41,EXIT,READ1,ENDT11,EXP,ERROR1,EXPO21,
1WRITE1,ALOG
SUMMARIZE ALL
FILE 2=QELPPA,UNIT=DISKPACK,RECORD=80,BLOCKING=9,AREA=360
FILE 3=QELISH,UNIT=DISK,RECORD=90,BLOCKING=10,LOCK
FILE 9=QELDSH,UNIT=DISK,RECORD=80,BLOCKING=5,LOCK
REAL IV
REAL MEANS(109,9),NSUM(109,9),NSMSQ(109,9)
DIMENSION IV(109,9),STDEV(109,9),SEOM(109,9),ALPHA(109,11)
C
C
READ(2,92)L,N,IPSH
92 FORMAT(13,3X,13,3X,12)
ASSIGN 1001 TO NUM
IF(L.EQ.1)ASSIGN 1000 TO NUM
C
C
C
C
C
INITIALIZE VARIABLES
C
C
RNOP=0
DO 11 J=1,9
DO 11 IC=1,N
NSUM(IC,J)=0
IV(IC,J)=0
STDEV(IC,J)=0
SEOM(IC,J)=0
MEANS(IC,J)=0
11 NSMSQ(IC,J)=0
C
C
C
C
C
C
C
C
C
C
READ INPUT DATA
C
C
1 READ(2,91,END=300) LTAG
91 FORMAT(13)
IF(LTAG.LT.0) GO TO 4
DO 200 K = 1,N
READ(2,989) IC
989 FORMAT(3X,13)
REREAD
88 READ(2,99)(ALPHA(IC,L),L=1,11), (IV(IC,J),J=1,9)
99 FORMAT(6X,11A1,54X,9F1.0)
DO 150 J=1,9,2
150 IV(IC,J)=8-IV(IC,J)
200 CONTINUE
C
C
C
C
COUNT THE NUMBER OF CASES
C
3 RNOP=RNOP+1

```

```

      DO 10 J=1,9
      DO 10 IC=1,N
C      THIS COMPUTES THE SUMS
      NSUM(IC,J)=NSUM(IC,J)+IV(IC,J)
C      THIS COMPUTES THE SUMS OF THE SQUARES
10    NSMSQ(IC,J)=(IV(IC,J)**2)+NSMSQ(IC,J)
      GO TO 1
      4 DO 13 J=1,9
      DO 13 IC=1,N
C      THIS COMPUTES THE MEAN
      MEANS (IC,J)= NSUM(IC,J)/RNOP
C      THIS COMPUTES THE STANDARD DEVIATION
      STDEV(IC,J)=((NSMSQ(IC,J)/RNOP)-(MEANS(IC,J)**2))**.5
C      THIS COMPUTES THE STANDARD ERROR OF THE MEANS
13    SEON(IC,J)=STDEV(IC,J)/((RNOP-1)**.5)
      WRITE(3,80)
80    FORMAT(1H1," COMPUTER PRINTOUT FOR THE SEMANTIC DIFFERENTIAL"/)
      GO TO NUM,(1000,1001)
1000  WRITE(3,970)
970    FORMAT(1H,"THE SCORES OF THE SUBSCALES ARE"/)
C
C*****
C*
C*      WRITE 4 GROUPS OF OUTPUT AND CREATE DISK FILE(QELDSM)
C*      WITH THE FOLLOWING FORMAT:
C*
C*      RECORD      COL      CONTENTS
C*      1           1-3      NUMBER OF CONCEPTS
C*      2           1        SPACE
C*      2-4         5-11     VALUE OF 1ST MEAN   XXX,XXX
C*      12-18       70-80    VALUE OF 2ND MEAN   XXX,XXX
C*      19-67       68-69    VALUES OF 3RD THRU 9TH MEANS
C*      68-69       70-80    SPACE
C*      70-80       3        CONCEPT = ALPHA
C*      3           SAME FORMAT AS RECORD 2 BUT FOR 2ND CONCEPT
C*      4=(N+1)     INFORMATION FOR REMAINING CONCEPTS
C*
C*****
      GO TO 1002
1001  WRITE(3,97)
97    FORMAT (1H,"THE MEANS OF THE SUBSCALES ARE "/)
C      MEANS
101  FORMAT(1X,I3,9F7.3,2X,11A1)
1002  WRITE(3,100)(IC,(MEANS(IC,J),J=1,9),(ALPHA(IC,K),K=1,11),IC=1,N)
      WRITE(9,91)N
      WRITE(9,101)(IC,(MEANS(IC,J),J=1,9),(ALPHA(IC,K),K=1,11),
1    IC=1,N)
100  FORMAT(1X,I3,"=",9F7.3,5X,11A1)
      IF(IPSM.NE.2) GO TO 199
C  THESE STATEMENTS ARE EXECUTED WITH PRESENT CODE 2
C  PRINT SUMS
      WRITE(3,96)
96    FORMAT(////,1X,"THE SUMS ARE",/)
      WRITE(3,201) (IC,(NSUM(IC,J),J=1,9),IC=1,N)
201  FORMAT(1X,I3,"=",9F6.0)

```



```

C          SUMS OF THE SQUARES
      WRITE(3,95)
95  FORMAT(//////,1X,"THE SUMS OF THE SQUARES ARE",/)
      WRITE(3,90)   (IC,(NSMSQ(IC,J),J=1,9),IC=1,N)
90  FORMAT(1X,13,"=",9F8.0)
C          STANDARD DEVIATIONS
      WRITE(3,94)
94  FORMAT(//////,1X,"THE STANDARD DEVIATIONS ARE",/)
      WRITE(3,102)  (IC,(STDEV(IC,J),J=1,9),IC=1,N)
      WRITE(3,93)
93  FORMAT(//////,1X,"THE STANDARD ERRORS OF THE MEANS ARE",/)
      WRITE(3,102)  (IC,(SEDM (IC,J),J=1,9),IC=1,N)
102 FORMAT(1X,13,"=",9F7.3)
199 CALL ZIP("CC EXECUTE QELOTD.")
300 STOP
      END

```

```

79  3:54 P.M.      FORTIV COMPILER (76/239)
E NUMBER: ASR 5.6      0 FLAGS      0 ERRORS
J TIME   50 SECS      183 CARDS AT 221 C.P.M.
"      0 DATA = 86324 TEMPORARIES = 36
4012/ 4646      DIGITS

```

SDGPD QELOPD = OBJECT FILE
QELSPD = SOURCE FILE

THIS PROGRAM COMPUTES THE D VALUES FOR THE SEMANTIC DIFFERENTIAL USING THE GENERALIZED DISTANCE FORMULA:

$D = \text{SQUARE ROOT OF SUM OF D SQUARED}$

(SEE OSGOOD, SUCI & TANNENBAUM P.91)

DISTANCES ARE COMPUTED BETWEEN EACH CONCEPT AND EVERY OTHER CONCEPT. THIS PROGRAM WILL HANDLE UP TO 55 CONCEPTS, I.E. CONCEPT N1 TO CONCEPT N2 WHERE $N2 = N1 + N - 1$ AND CONCEPT K IS FOUND IN RECORD (K+1) IN THE INPUT FILE.

THIS PROGRAM WAS DEVELOPED BY K.J. CHMURA, G.H. GOLDEN, JR., B.L. METIVIER & E.D. LAWSON AT THE COMPUTER CENTER, STATE UNIVERSITY COLLEGE, FREDONIA, NEW YORK, 14063.

DATA INPUT IS THE DISK FILE (QELDSM) CREATED BY PROGRAM SDMSM (QELDSM) WHICH IS THE MEANS OF THE SUBSCALES. IT IS STORED IN THE FOLLOWING FORMAT:

RECORD	COL	CONTENTS
1	1-3	NUMBER OF CONCEPTS
2	1	BLANK
	2-4	CONCEPT IDENT NUMBER = INTEGER
	5-11	VALUE OF MEAN OF SUBSCALE 1
	12-18	VALUE OF MEAN OF SUBSCALE 2
	19-25	VALUE OF MEAN OF SUBSCALE 3
	26-32	VALUE OF MEAN OF SUBSCALE 4
	33-39	VALUE OF MEAN OF SUBSCALE 5
	40-46	VALUE OF MEAN OF SUBSCALE 6
	47-53	VALUE OF MEAN OF SUBSCALE 7
	54-60	VALUE OF MEAN OF SUBSCALE 8
	61-67	VALUE OF MEAN OF SUBSCALE 9
	68-69	SPACE
	70-80	CONCEPT NAME = ALPHA

REPEAT RECORD 2 AS NEEDED - ONE FOR EACH CONCEPT

RECORD 2 HAS THE MEANS OF THE SUBSCALES FOR THE 1ST CONCEPT, RECORD 3 FOR THE 2ND CONCEPT, RECORD 4 FOR THE 3RD CONCEPT AND SO ON UNTIL ALL CONCEPTS (N1 TO N2) HAVE BEEN INCLUDED.

OUTPUT FROM THIS PROGRAM IS A DISK FILE, QELOPD, FOR USE IN LRANK (QELUNK), THE CORRELATION PROGRAM. THE VALUES RECORDED WILL BE THE DISTANCES BETWEEN CONCEPT 1 AND (2 TO N) IN THE 1ST (N-1) RECORDS, CONCEPT 2 AND (3 TO N) IN THE NEXT (N-2) RECORDS, CONCEPT 3 AND (4 TO N) IN THE NEXT (N-3) RECORDS, ETC.

```
C* WHEN THIS PROGRAM IS FINISHED, IT CALLS PROGRAM LRANK, (QELONK).  
C*  
C* .....  
C  
C  
C  
C  
C  
SLST1  
IDENT SDGPD  
SUMMARIZE ALL  
FILE 3=QELDSDM,UNIT=DISK,RANDOM,RECORD=80,BLOCKING=5  
FILE 6=QELIPD,UNIT=DISK,RECORD=110,BLOCKING=10,LOCK  
FILE 8=QELOPD,UNIT=DISK,RECORD=80,BLOCKING=5,LOCK  
FILE 2=QELCPD,UNIT=READER  
REAL MEAN(55)  
DIMENSION BA(55,9),SUM (55,54),ALPHA(55,11)  
100 FORMAT(1H1)  
  
C  
C  
C* .....  
C* READ 1 CARD WITH FOLLOWING FORMAT:  
C* COL CONTENTS  
C* 1-3 M = NUMBER OF CONCEPTS RATED  
C* 4-6 SPACE  
C* 7-9 N1 = NUMBER OF 1ST CONCEPT  
C* 10-12 SPACE  
C* 13-15 N2 = NUMBER OF LAST CONCEPT  
C* 16-80 SPACE  
C* .....  
C  
C  
C  
101 READ(2,101)M,N1,N2  
101 FORMAT(3(I3,3X))  
MM=M-1  
DO 4 I=1,M  
DO 4 J=1,MM  
SUM(J,I)=0  
4 MEAN(I)=0  
WRITE(6,102)  
  
C  
C  
C  
C READ IN INPUT FILE  
  
DO 100 I=1,M  
NREC=N1+I  
READ(3=NREC,105)IC,(BA(I,J),J=1,9),(ALPHA(I,K),K=1,11)  
WRITE(6,105)IC,(BA(I,J),J=1,9),(ALPHA(I,K),K=1,11)  
100 CONTINUE  
WRITE(6,112)  
102 FORMAT(1X,"CONC",3X,"1",6X,"2",6X,"3",6X,"4",6X,"5",6X,"6",6X,  
1X,"7",6X,"8",6X,"9"/" NO."/)  
105 FORMAT(1X,I3,9F7,3,2X,11A1)
```



```

DO 21 K=1,MH
L=K+1
DO 21 J=L,M
I=J-1
DO 20 NN=1,N
20 SUM(K,I)=((BA(J,NN)-BA(K,NN))*2) + SUM(K,I)
21 SUM(K,I)=SQRT(SUM(K,I))

```

C
C
C
C
C

WRITE HEADING

```

WRITE(6,109)
109 FORMAT(" THE OSGOOD DEFS BETWEEN THE CONCEPTS ARE SHOWN BELOW"/
1" FIRST GROUP OF ROWS SHOWS CONCEPT 01 AGAINST 02, 03, 04 ETC."/
2" SECOND GROUP OF ROWS SHOWS CONCEPT 02 AGAINST 03, 04, 05 ETC."/
3" THIRD GROUP SHOWS CONCEPT 03 AGAINST THE OTHERS. FOURTH GROUP="
4/" CONCEPT 04 ETC. --"//
-16X,"2      3      4      5      6      7      8      9      10     11     12
-      13     14     15     16")
DO 30 K=1,MH
J=0
DO 40 I=K,MH
J=J+1
40 MEAN(J)=SUM(K,I)
L2=15

```

C
C
C
C
C

WRITE DISTANCE MATRIX TO DISK FILE (QELUPD)

```

WRITE(8,6020)(MEAN(L),L=1,J)
ICON=N1+K-1
DO 25 L=1,J,15
IF(L2.GT.J)L2=J
WRITE(6,110)ICON,(MEAN(J1),J1=L,L2)
25 L2=L2+15
WRITE(6,112)
30 CONTINUE
CALL ZIP("EXECUTE QELONK.")
STOP
6020 FORMAT(F6,2)
110 FORMAT(1X,"CONC ",I3,3X,15F6,2)
112 FORMAT(1X,/)
END

```

```

79  4100 P.M.      FORTIV COMPILER (76/239)
E NUMBER1 ASR 5.0      0 FLAGS      0 ERRORS
J TIME      44 SECS      156 CARDS AT 211 C.P.M.
"      0 DATA " 50900 TEMPORARIES " 36
2470/ 2896 DIGITS

```

The following pages represent sample data in which there were 25 cases and 18 concepts. File #1 is QELWHS (Women High Scores). File #2 is QELWLS (Women Low Scores). The files show the actual subscale values on each concept for each respondent.

NO FILE: 000000/0ELWHS (13/00)

1	025	018	02	007	145
2	007				
3	7	1MYSELF			
4	7	2IDEALSELF			
5	7	3IDEALMAN			
6	7	4IDEALWOMAN			
7	7	5IDHUSBAND			
8	7	6IDEALWIFE			
9	7	7MASCULINE			
10	7	8FEMININE			
11	7	9PAIN			
12	7	10GUILT			
13	7	11ILLNESS			
14	7	12DIVORCE			
15	7	13GOOD			
16	7	14BAD			
17	7	15STRONG			
18	7	16WEAK			
19	7	17ACTIVE			
20	7	18PASSIVE			
21	101				
22	101	1MYSELF			
23	101	2IDEALSELF			
24	101	3IDEALMAN			
25	101	4IDEALWOMAN			
26	101	5IDHUSBAND			
27	101	6IDEALWIFE			
28	101	7MASCULINE			
29	101	8FEMININE			
30	101	9PAIN			
31	101	10GUILT			
32	101	11ILLNESS			
33	101	12DIVORCE			
34	101	13GOOD			
35	101	14BAD			
36	101	15STRONG			
37	101	16WEAK			
38	101	17ACTIVE			
39	101	18PASSIVE			

8/13/79 (MONDAY)

16

...00080/009
...00080/009
262636142...00080/009
153436143...00080/009
172627162...00080/009
253436243...00080/009
262617162...00080/009
262546152...00080/009
571313477...00080/009
225675215...00080/009
775114775...00080/009
624242654...00080/009
726244526...00080/009
726241752...00080/009
254537252...00080/009
752262626...00080/009
171417272...00080/009
217466626...00080/009
371436362...00080/009
426456425...00080/009
...00080/009
355333222...00080/009
251752111...00080/009
171713171...00080/009
161762111...00080/009
171713171...00080/009
261752111...00080/009
571112371...00080/009
232666211...00080/009
677714771...00080/009
631121661...00080/009
717414744...00080/009
563113744...00080/009
124477135...00080/009
772111371...00080/009
571113371...00080/009
116477417...00080/009
361717244...00080/009
115477417...00080/009

Sem Diff 52

40	102	
41	102	1MYSELF
42	102	2IDEALSELF
43	102	3IDEALMAN
44	102	4IDEALWOMAN
45	102	5IDHUSBAND
46	102	6IDEALWIFE
47	102	7MASCULINE
48	102	8FEMININE
49	102	9PAIN
50	102	10GUILTY
51	102	11ILLNESS
52	102	12DIVORCE
53	102	13GOOD
54	102	14BAD
55	102	15STRONG
56	102	16WEAK
57	102	17ACTIVE
58	102	18PASSIVE

) NO FILE: 000000/QELWHS (13/00)

59	103	
60	103	1MYSELF
61	103	2IDEALSELF
62	103	3IDEALMAN
63	103	4IDEALWOMAN
64	103	5IDHUSBAND
65	103	6IDEALWIFE
66	103	7MASCULINE
67	103	8FEMININE
68	103	9PAIN
69	103	10GUILTY
70	103	11ILLNESS
71	103	12DIVORCE
72	103	13GOOD
73	103	14BAD
74	103	15STRONG
75	103	16WEAK
76	103	17ACTIVE
77	103	18PASSIVE

...00080/009
 335565322...00080/009
 243665232...00080/009
 262536253...00080/009
 222667122...00080/009
 262626253...00080/009
 232556222...00080/009
 662325565...00080/009
 225555323...00080/009
 716413671...00080/009
 666121761...00080/009
 717421717...00080/009
 676223728...00080/009
 152656133...00080/009
 726242556...00080/009
 572626262...00080/009
 316353526...00080/009
 261533263...00080/009
 126466213...00080/009

8/13/79 (MONDAY)

11

...00080/009
 172656121...00080/009
 171745111...00080/009
 171626171...00080/009
 171747111...00080/009
 171626151...00080/009
 173446111...00080/009
 571514371...00080/009
 135666111...00080/009
 715122777...00080/009
 771141777...00080/009
 717173767...00080/009
 525362554...00080/009
 174547111...00080/009
 716251666...00080/009
 573525261...00080/009
 417374715...00080/009
 371535241...00080/009
 362435232...00080/009

Sem Diff 53

78	105	
79	105	1MYSELF
80	105	2IDEALSELF
81	105	3IDEALMAN
82	105	4IDEALWOMAN
83	105	5IDHUSBAND
84	105	6IDEALWIFE
85	105	7MASCULINE
86	105	8FEMININE
87	105	9PAIN
88	105	10GUILT
89	105	11ILLNESS
90	105	12DIVORCE
91	105	13GOOD
92	105	14BAD
93	105	15STRONG
94	105	16WEAK
95	105	17ACTIVE
96	105	18PASSIVE
97	106	
98	106	1MYSELF
99	106	2IDEALSELF
100	106	3IDEALMAN
101	106	4IDEALWOMAN
102	106	5IDHUSBAND
103	106	6IDEALWIFE
104	106	7MASCULINE
105	106	8FEMININE
106	106	9PAIN
107	106	10GUILT
108	106	11ILLNESS
109	106	12DIVORCE
110	106	13GOOD
111	106	14BAD
112	106	15STRONG
113	106	16WEAK
114	106	17ACTIVE
115	106	18PASSIVE

...00080/009
 456336542...00080/009
 171767121...00080/009
 171717171...00080/009
 172757131...00080/009
 171717171...00080/009
 172757131...00080/009
 574617274...00080/009
 114777412...00080/009
 764644721...00080/009
 624442743...00080/009
 716544615...00080/009
 726144741...00080/009
 144447143...00080/009
 754241452...00080/009
 574424474...00080/009
 216464414...00080/009
 471644462...00080/009
 116454526...00080/009
 ...00080/009
 163647111...00080/009
 173667111...00080/009
 174517111...00080/009
 174457111...00080/009
 174717171...00080/009
 173747111...00080/009
 173637371...00080/009
 173547111...00080/009
 712147771...00080/009
 515431552...00080/009
 572435776...00080/009
 717541715...00080/009
 171477151...00080/009
 764653562...00080/009
 375447452...00080/009
 414343464...00080/009
 171537122...00080/009
 354546345...00080/009

Sem Diff 54

NO FILE: 000000/0ELNHS (13/00)

17	107	1MYSELF
18	107	2IDEALSELF
19	107	3IDEALMAN
20	107	4IDEALWOMAN
21	107	5IDHUSBAND
22	107	6IDEALWIFE
23	107	7MASCULINE
24	107	8FEMININE
25	107	9PAIN
26	107	10GUILT
27	107	11ILLNESS
28	107	12DIVORCE
29	107	13GOOD
30	107	14BAD
31	107	15STRONG
32	107	16WEAK
33	107	17ACTIVE
34	107	18PASSIVE
35	110	
36	110	1MYSELF
37	110	2IDEALSELF
38	110	3IDEALMAN
39	110	4IDEALWOMAN
40	110	5IDHUSBAND
41	110	6IDEALWIFE
42	110	7MASCULINE
43	110	8FEMININE
44	110	9PAIN
45	110	10GUILT
46	110	11ILLNESS
47	110	12DIVORCE
48	110	13GOOD
49	110	14BAD
50	110	15STRONG
51	110	16WEAK
52	110	17ACTIVE
53	110	18PASSIVE

...00080/009

8/13/79 (MONDAY)

16

354444144...00080/009
172446143...00080/009
173436161...00080/009
262447143...00080/009
263637141...00080/009
164457143...00080/009
462425372...00080/009
343455334...00080/009
773112761...00080/009
662426662...00080/009
774112541...00080/009
626262676...00080/009
174417142...00080/009
714451656...00080/009
472415371...00080/009
417474515...00080/009
452435161...00080/009
426464527...00080/009
...00080/009
262547222...00080/009
171647122...00080/009
171647162...00080/009
262646132...00080/009
171727161...00080/009
172417112...00080/009
171626374...00080/009
172747112...00080/009
746124666...00080/009
526361766...00080/009
717121755...00080/009
627172775...00080/009
172437142...00080/009
716141766...00080/009
272616263...00080/009
216573636...00080/009
272547122...00080/009
254366352...00080/009

Sem Diff 55

11
60

154	111	
155	111	1MYSELF
156	111	2IDEALSELF
157	111	3IDEALMAN
158	111	4IDEALWOMAN
159	111	5IDHUSBAND
160	111	6IDEALWIFE
161	111	7MASCULINE
162	111	8FEMININE
163	111	9PAIN
164	111	10GUILT
165	111	11ILLNESS
166	111	12DIVORCE
167	111	13GOOD
168	111	14BAD
169	111	15STRONG
170	111	16WEAK
171	111	17ACTIVE
172	111	18PASSIVE
173	112	
174	112	1MYSELF

) NO FILE: 000000/QELWHS (13/00)

175	112	2IDEALSELF
176	112	3IDEALMAN
177	112	4IDEALWOMAN
178	112	5IDHUSBAND
179	112	6IDEALWIFE
180	112	7MASCULINE
181	112	8FEMININE
182	112	9PAIN
183	112	10GUILT
184	112	11ILLNESS
185	112	12DIVORCE
186	112	13GOOD
187	112	14BAD
188	112	15STRONG
189	112	16WEAK
190	112	17ACTIVE
191	112	18PASSIVE

...00080/009
 453555344...00080/009
 262567133...00080/009
 262526262...00080/009
 263566233...00080/009
 262526263...00080/009
 252566233...00080/009
 253426253...00080/009
 243556233...00080/009
 666534553...00080/009
 654434654...00080/009
 626634634...00080/009
 556835543...00080/009
 162637143...00080/009
 734241662...00080/009
 172527262...00080/009
 326564626...00080/009
 271646253...00080/009
 256546535...00080/009
 ...00080/009
 172777211...00080/009

8/13/79 (MONDAY)

10

172667111...00080/009
 171717171...00080/009
 172757112...00080/009
 172727171...00080/009
 152757123...00060/009
 572614374...00080/009
 162777113...00080/009
 716112761...00080/009
 626363755...00080/009
 616243763...00080/009
 711131755...00080/009
 174747114...00080/009
 732331572...00080/009
 271426274...00080/009
 316477716...00080/009
 361534243...00080/009
 126456214...00080/009

Sem Diff 56

192	113	
193	113	1MYSELF
194	113	2IDEALSELF
195	113	3IDEALMAN
196	113	4IDEALWOMAN
197	113	5IDHUSBAND
198	113	6IDEALWIFE
199	113	7MASCULINE
200	113	8FEMININE
201	113	9PAIN
202	113	10GUILT
203	113	11ILLNESS
204	113	12DIVORCE
205	113	13GOOD
206	113	14BAD
207	113	15STRONG
208	113	16WEAK
209	113	17ACTIVE
210	113	18PASSIVE
211	114	
212	114	1MYSELF
213	114	2IDEALSELF
214	114	3IDEALMAN
215	114	4IDEALWOMAN
216	114	5IDHUSBAND
217	114	6IDEALWIFE
218	114	7MASCULINE
219	114	8FEMININE
220	114	9PAIN
221	114	10GUILT
222	114	11ILLNESS
223	114	12DIVORCE
224	114	13GOOD
225	114	14BAD
226	114	15STRONG
227	114	16WEAK
228	114	17ACTIVE
229	114	18PASSIVE

...00080/009
 135456335...00080/009
 162457133...00080/009
 162423562...00080/009
 35233353...00080/009
 153547244...00080/009
 172437153...00080/009
 573433363...00080/009
 135455525...00080/009
 655433722...00080/009
 524443633...00080/009
 335355525...00080/009
 535233653...00080/009
 153437153...00080/009
 763222662...00080/009
 573434373...00080/009
 315363526...00080/009
 571534262...00080/009
 326355525...00080/009
 ...00080/009
 233467134...00080/009
 174447144...00080/009
 164437154...00080/009
 254457162...00080/009
 163437122...00080/009
 163457122...00080/009
 571745471...00080/009
 326456623...00080/009
 717746716...00080/009
 717232616...00080/009
 17546726...00080/009
 716454746...00080/009
 144447144...00080/009
 763242674...00080/009
 571414362...00080/009
 216564516...00080/009
 244445252...00080/009
 117177717...00080/009

Sem Diff 57

230	115	
231	115	1MYSELF
232	115	2IDEALSELF

J NO	FILE: 000000/QELWHS	(13/00)
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233	115	3IDEALMAN
234	115	4IDEALWOMAN
235	115	5IDHUSBAND
236	115	6IDEALWIFE
237	115	7MASCULINE
238	115	8FEMININE
239	115	9PAIN
240	115	10GUILT
241	115	11ILLNESS
242	115	12DIVORCE
243	115	13GOOD
244	115	14BAD
245	115	15STRONG
246	115	16WEAK
247	115	17ACTIVE
248	115	18PASSIVE
249	116	
250	116	1MYSELF
251	116	2IDEALSELF
252	116	3IDEALMAN
253	116	4IDEALWOMAN
254	116	5IDHUSBAND
255	116	6IDEALWIFE
256	116	7MASCULINE
257	116	8FEMININE
258	116	9PAIN
259	116	10GUILT
260	116	11ILLNESS
261	116	12DIVORCE
262	116	13GOOD
263	116	14BAD
264	116	15STRONG
265	116	16WEAK
266	116	17ACTIVE
267	116	18PASSIVE

...00080/009
234647122...00080/009
153657122...00080/009

8/13/79 (MONDAY) 161

174717171...00080/009
174767111...00080/009
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172617141...00080/009
134467114...00080/009
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626254536...00080/009
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471414474...00080/009
417375617...00080/009
461664254...00080/009
544436352...00080/009

Sem Diff 58

268	117	
269	117	1MYSELF
270	117	2IDEALSELF
271	117	3IDEALMAN
272	117	4IDEALWOMAN
273	117	5IDHUSBAND
274	117	6IDEALWIFE
275	117	7MASCULINE
276	117	8FEMININE
277	117	9PAIN
278	117	10GUILT
279	117	11ILLNESS
280	117	12DIVORCE
281	117	13GOOD
282	117	14BAD
283	117	15STRONG
284	117	16WEAK
285	117	17ACTIVE
286	117	18PASSIVE
287	122	
288	122	1MYSELF
289	122	2IDEALSELF
290	122	3IDEALMAN

) NO FILE: 000000/QELWHS

(13/00)

291	122	4IDEALWOMAN
292	122	5IDHUSBAND
293	122	6IDEALWIFE
294	122	7MASCULINE
295	122	8FEMININE
296	122	9PAIN
297	122	10GUILT
298	122	11ILLNESS
299	122	12DIVORCE
300	122	13GOOD
301	122	14BAD
302	122	15STRONG
303	122	16WEAK
304	122	17ACTIVE
305	122	18PASSIVE

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 364446243...00080/009
 174447141...00080/009
 274436263...00080/009
 264447141...00080/009
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 225375525...00080/009
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 172657111...00080/009
 162627142...00080/009

8/13/79 (MONDAY)

16

164647112...00080/009
 163627142...00080/009
 154657112...00080/009
 462524375...00080/009
 144466214...00080/009
 774231762...00080/009
 662443622...00080/009
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 417474514...00080/009
 452544352...00080/009
 226455435...00080/009

Sem Diff 59

306	124	
307	124	1MYSELF
308	124	2IDEALSELF
309	124	3IDEALMAN
310	124	4IDEALWOMAN
311	124	5IDHUSBAND
312	124	6IDEALWIFE
313	124	7MASCULINE
314	124	8FEMININE
315	124	9PAIN
316	124	10GUILTY
317	124	11ILLNESS
318	124	12DIVORCE
319	124	13GOOD
320	124	14BAD
321	124	15STRONG
322	124	16WEAK
323	124	17ACTIVE
324	124	18PASSIVE
325	127	
326	127	1MYSELF
327	127	2IDEALSELF
328	127	3IDEALMAN
329	127	4IDEALWOMAN
330	127	5IDHUSBAND
331	127	6IDEALWIFE
332	127	7MASCULINE
333	127	8FEMININE
334	127	9PAIN
335	127	10GUILTY
336	127	11ILLNESS
337	127	12DIVORCE
338	127	13GOOD
339	127	14BAD
340	127	15STRONG
341	127	16WEAK
342	127	17ACTIVE
343	127	18PASSIVE

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 152457133...00080/009
 172727171...00080/009
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 ...00080/009
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 173657112...00080/009
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 173647112...00080/009
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 371416262...00080/009
 135564214...00080/009
 317474714...00080/009
 534451734...00080/009
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 272424264...00080/009
 516462614...00080/009
 461424354...00080/009
 254545214...00080/009

Sem Diff 60

344 128
 345 128 1MYSELF
 346 128 2IDEALSELF
 347 128 3IDEALMAN
 348 128 4IDEALWOMAN

D NO FILE: 000000/0ELMHS (13/00)

349 128 5IDHUSBAND
 350 128 6IDEALWIFE
 351 128 7MASCULINE
 352 128 8FEMININE
 353 128 9PAIN
 354 128 10GUILT
 355 128 11ILLNESS
 356 128 12DIVORCE
 357 128 13GOOD
 358 128 14BAD
 359 128 15STRONG
 360 128 16WEAK
 361 128 17ACTIVE
 362 128 18PASSIVE
 363 134
 364 134 1MYSELF
 365 134 2IDEALSELF
 366 134 3IDEALMAN
 367 134 4IDEALWOMAN
 368 134 5IDHUSBAND
 369 134 6IDEALWIFE
 370 134 7MASCULINE
 371 134 8FEMININE
 372 134 9PAIN
 373 134 10GUILT
 374 134 11ILLNESS
 375 134 12DIVORCE
 376 134 13GOOD
 377 134 14BAD
 378 134 15STRONG
 379 134 16WEAK
 380 134 17ACTIVE
 381 134 18PASSIVE

...00080/009
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 263467122...00080/009
 362526152...00080/009
 234566125...00080/009

8/13/79 (MONDAY)

16:

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 244667123...00080/009
 471415371...00080/009
 226466216...00080/009
 772234661...00080/009
 624241655...00080/009
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 171417171...00080/009
 717441777...00080/009
 171714471...00080/009
 317471717...00080/009
 171717171...00080/009
 444444444...00080/009

Sem Diff 61

382	137	
383	137	1MYSELF
384	137	2IDEALSELF
385	137	3IDEALMAN
386	137	4IDEALWOMAN
387	137	5IDHUSBAND
388	137	6IDEALWIFE
389	137	7MASCULINE
390	137	8FEMININE
391	137	9PAIN
392	137	10GUILT
393	137	11ILLNESS
394	137	12DIVORCE
395	137	13GOOD
396	137	14BAD
397	137	15STRONG
398	137	16WEAK
399	137	17ACTIVE
400	137	18PASSIVE
401	138	
402	138	1MYSELF
403	138	2IDEALSELF
404	138	3IDEALMAN
405	138	4IDEALWOMAN
406	138	5IDHUSBAND

) NO FILE: 000000/0ELWHS (13/00)

407	138	6IDEALWIFE
408	138	7MASCULINE
409	138	8FEMININE
410	138	9PAIN
411	138	10GUILT
412	138	11ILLNESS
413	138	12DIVORCE
414	138	13GOOD
415	138	14BAD
416	138	15STRONG
417	138	16WEAK
418	138	17ACTIVE
419	138	18PASSIVE

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 173447243...00080/009
 174467141...00080/009
 174637162...00080/009
 174457142...00080/009
 174537142...00080/009
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 175537155...00080/009
 175537154...00080/009
 175527165...00080/009

8/13/79 (MONDAY)

16

175537165...00080/009
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 726111753...00080/009
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 315355526...00080/009
 362646253...00080/009
 425344536...00080/009

Sem Diff 62

420	140	
421	140	1MYSELF
422	140	2IDEALSELF
423	140	3IDEALMAN
424	140	4IDEALWOMAN
425	140	5IDHUSBAND
426	140	6IDEALWIFE
427	140	7MASCULINE
428	140	8FEMININE
429	140	9PAIN
430	140	10GUILT
431	140	11ILLNESS
432	140	12DIVORCE
433	140	13GOOD
434	140	14BAD
435	140	15STRONG
436	140	16WEAK
437	140	17ACTIVE
438	140	18PASSIVE
439	141	
440	141	1MYSELF
441	141	2IDEALSELF
442	141	3IDEALMAN
443	141	4IDEALWOMAN
444	141	5IDHUSBAND
445	141	6IDEALWIFE
446	141	7MASCULINE
447	141	8FEMININE
448	141	9PAIN
449	141	10GUILT
450	141	11ILLNESS
451	141	12DIVORCE
452	141	13GOOD
453	141	14BAD
454	141	15STRONG
455	141	16WEAK
456	141	17ACTIVE
457	141	18PASSIVE

...00080/009
 133435232...00080/009
 355536252...00080/009
 163527142...00080/009
 253546232...00080/009
 262626162...00080/009
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 325456235...00080/009
 665233667...00080/009
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 717141774...00080/009
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 443564434...00080/009

458	145	
459	145	1MYSELF
460	145	2IDEALSELF
461	145	3IDEALMAN
462	145	4IDEALWOMAN
463	145	5IDHUSBAND
464	145	6IDEALWIFE

D NO FILE: 000000/QELMHS (13/00)

465	145	7MASCULINE
466	145	8FEMININE
467	145	9PAIN
468	145	10GUILT
469	145	11ILLNESS
470	145	12DIVORCE
471	145	13GOOD
472	145	14BAD
473	145	15STRONG
474	145	16WEAK
475	145	17ACTIVE
476	145	18PASSIVE
477	-99	

OF FILE

477 RECORDS

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242546242...00080/009
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8/13/79 (MONDAY)

16

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556234644...00080/009
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316465416...00080/009
453434453...00080/009
216464435...00080/009
...00080/009

Sem Diff 64

ECD NO FILE: 000000/0ELWLS

(13/00)

1	025	018	02	104	149
2	104				
3	104	1MYSELF			
4	104	2IDEALSELF			
5	104	3IDEALMAN			
6	104	4IDEALWOMAN			
7	104	5IDHUSBAND			
8	104	6IDEALWIFE			
9	104	7MASCULINE			
10	104	8FEMININE			
11	104	9PAIN			
12	104	10GUILT			
13	104	11ILLNESS			
14	104	12DIVORCE			
15	104	13GOOD			
16	104	14BAD			
17	104	15STRONG			
18	104	16WEAK			
19	104	17ACTIVE			
20	104	18PASSIVE			
21	108				
22	108	1MYSELF			
23	108	2IDEALSELF			
24	108	3IDEALMAN			
25	108	4IDEALWOMAN			
26	108	5IDHUSBAND			
27	108	6IDEALWIFE			
28	108	7MASCULINE			
29	108	8FEMININE			
30	108	9PAIN			
31	108	10GUILT			
32	108	11ILLNESS			
33	108	12DIVORCE			
34	108	13GOOD			
35	108	14BAD			
36	108	15STRONG			
37	108	16WEAK			
38	108	17ACTIVE			
39	108	18PASSIVE			

WOMEN

8/13/79 (MONDAY)

11

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145557631...00000/000
162727151...00000/000
162637141...00000/000
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162627171...00000/000
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372315476...00000/000
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125-46212...00000/000

Sem Diff 65

40	109	
41	109	1MYSELF
42	109	2IDEALSELF
43	109	3IDEALMAN
44	109	4IDEALWOMAN
45	109	5IDHUSBAND
46	109	6IDEALWIFE
47	109	7MASCULINE
48	109	8FEMININE
49	109	9PAIN
50	109	10GUILT
51	109	11ILLNESS
52	109	12DIVORCE
53	109	13GOOD
54	109	14BAD
55	109	15STRONG
56	109	16WEAK
57	109	17ACTIVE
58	109	18PASSIVE

ECD NO FILE: 000000/QFLWLS (13/00)

59	118	
60	118	1MYSELF
61	118	2IDEALSELF
62	118	3IDEALMAN
63	118	4IDEALWOMAN
64	118	5IDHUSBAND
65	118	6IDEALWIFE
66	118	7MASCULINE
67	118	8FEMININE
68	118	9PAIN
69	118	10GUILT
70	118	11ILLNESS
71	118	12DIVORCE
72	118	13GOOD
73	118	14BAD
74	118	15STRONG
75	118	16WEAK
76	118	17ACTIVE
77	118	18PASSIVE

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 711121761...00080/009
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 461664264...00080/009
 216466314...00080/009

8/23/79 (MONDAY)

16

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 153737144...00080/009
 172727164...00080/009
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 747141741...00080/009
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 764341454...00080/009
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 414474414...00080/009
 461744154...00080/009
 114554343...00080/009

Sem Diff 66

78	119	
79	119	1MYSELF
80	119	2IDEALSELF
81	119	3IDEALMAN
82	119	4IDEALWOMAN
83	119	5IDHUSBAND
84	119	6IDEALWIFE
85	119	7MASCULINE
86	119	8FEMININE
87	119	9PAIN
88	119	10GUILT
89	119	11ILLNESS
90	119	12DIVORCE
91	119	13GOOD
92	119	14BAD
93	119	15STRONG
94	119	16WEAK
95	119	17ACTIVE
96	119	18PASSIVE
97	120	
98	120	1MYSELF
99	120	2IDEALSELF
100	120	3IDEALMAN
101	120	4IDEALWOMAN
102	120	5IDHUSBAND
103	120	6IDEALWIFE
104	120	7MASCULINE
105	120	8FEMININE
106	120	9PAIN
107	120	10GUILT
108	120	11ILLNESS
109	120	12DIVORCE
110	120	13GOOD
111	120	14BAD
112	120	15STRONG
113	120	16WEAK
114	120	17ACTIVE
115	120	18PASSIVE

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 745651764...00080/009
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 716272617...00080/009
 251444241...00080/009
 254446243...00080/009

Sem Diff 67

ECD NO FILE: 000000/0ELWLS (13/00)

117	121	1MYSELF
118	121	2IDEALSELF
119	121	3IDEALMAN
120	121	4IDEALWOMAN
121	121	5IDHUSBAND
122	121	6IDEALWIFE
123	121	7MASCULINE
124	121	8FEMININE
125	121	9PAIN
126	121	10GUILT
127	121	11ILLNESS
128	121	12DIVORCE
129	121	13GOOD
130	121	14BAD
131	121	15STRONG
132	121	16WEAK
133	121	17ACTIVE
134	121	18PASSIVE
135	123	
136	123	1MYSELF
137	123	2IDEALSELF
138	123	3IDEALMAN
139	123	4IDEALWOMAN
140	123	5IDHUSBAND
141	123	6IDEALWIFE
142	123	7MASCULINE
143	123	8FEMININE
144	123	9PAIN
145	123	10GUILT
146	123	11ILLNESS
147	123	12DIVORCE
148	123	13GOOD
149	123	14BAD
150	123	15STRONG
151	123	16WEAK
152	123	17ACTIVE
153	123	18PASSIVE

...00080/009

8/13/79 (MONDAY)

16

152447142...00080/009
171447141...00080/009
273637132...00080/009
172447152...00080/009
172437152...00080/009
162447142...00080/009
271427142...00080/009
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772434761...00080/009
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545244732...00080/009
163417132...00080/009
764121654...00080/009
373423471...00080/009
417374614...00080/009
461545263...00080/009
317354426...00080/009
...00080/009
344464354...00080/009
362446242...00080/009
363436234...00080/009
355544463...00080/009
454444434...00080/009
252546244...00080/009
453434454...00080/009
445544453...00080/009
634246544...00080/009
662141642...00080/009
544244646...00080/009
545345444...00080/009
353547443...00080/009
735341444...00080/009
474567361...00080/009
416452515...00080/009
452445352...00080/009
244545435...00080/009

Sem Diff 68

154	125	
155	125	1MYSELF
156	125	2IDEALSELF
157	125	3IDEALMAN
158	125	4IDEALWOMAN
159	125	5IDHUSBAND
160	125	6IDEALWIFE
161	125	7MASCULINE
162	125	8FEMININE
163	125	9PAIN
164	125	10GUILT
165	125	11ILLNESS
166	125	12DIVORCE
167	125	13GOOD
168	125	14BAD
169	125	15STRONG
170	125	16WEAK
171	125	17ACTIVE
172	125	18PASSIVE
173	126	
174	126	1MYSELF

ECD NO FILE: 000000/QELWLS

(13/00)

175	126	2IDEALSELF
176	126	3IDEALMAN
177	126	4IDEALWOMAN
178	126	5IDHUSBAND
179	126	6IDEALWIFE
180	126	7MASCULINE
181	126	8FEMININE
182	126	9PAIN
183	126	10GUILT
184	126	11ILLNESS
185	126	12DIVORCE
186	126	13GOOD
187	126	14BAD
188	126	15STRONG
189	126	16WEAK
190	126	17ACTIVE
191	126	18PASSIVE

83

...00080/009
 263627142...00080/009
 162647131...00080/009
 172627272...00080/009
 263647232...00080/009
 162747172...00080/009
 162647232...00080/009
 172727372...00080/009
 133647323...00080/009
 734444744...00080/009
 673447654...00080/009
 524646624...00080/009
 734247754...00080/009
 163547343...00080/009
 762141364...00080/009
 472414374...00080/009
 415467412...00080/009
 462644364...00080/009
 324444634...00080/009
 ...00080/009
 152457352...00080/009

8/13/79 (MONDAY)

16

171437151...00080/009
 471317171...00080/009
 162447151...00080/009
 171417171...00080/009
 172447151...00080/009
 571314471...00080/009
 233557114...00080/009
 771112711...00080/009
 572613611...00080/009
 771113713...00080/009
 771113771...00080/009
 142447144...00080/009
 764141771...00080/009
 572614271...00080/009
 217174617...00080/009
 271414261...00080/009
 116446525...00080/009

Sem Diff 69

192	129	
193	129	1MYSELF
194	129	2IDEALSELF
195	129	3IDEALMAN
196	129	4IDEALWOMAN
197	129	5IDHUSBAND
198	129	6IDEALWIFE
199	129	7MASCULINE
200	129	8FEMININE
201	129	9PAIN
202	129	10GUILTY
203	129	11ILLNESS
204	129	12DIVORCE
205	129	13GOOD
206	129	14BAD
207	129	15STRONG
208	129	16WEAK
209	129	17ACTIVE
210	129	18PASSIVE
211	130	
212	130	1MYSELF
213	130	2IDEALSELF
214	130	3IDEALMAN
215	130	4IDEALWOMAN
216	130	5IDHUSBAND
217	130	6IDEALWIFE
218	130	7MASCULINE
219	130	8FEMININE
220	130	9PAIN
221	130	10GUILTY
222	130	11ILLNESS
223	130	12DIVORCE
224	130	13GOOD
225	130	14BAD
226	130	15STRONG
227	130	16WEAK
228	130	17ACTIVE
229	130	18PASSIVE

...00080/009
 172636161...00080/009
 171647151...00080/009
 172637152...00080/009
 173447161...00080/009
 163537152...00080/009
 263547152...00080/009
 173427161...00080/009
 263545342...00080/009
 711112771...00080/009
 655343535...00080/009
 716661717...00080/009
 352517564...00080/009
 153647141...00080/009
 732221562...00080/009
 273314473...00080/009
 516463617...00080/009
 261426271...00080/009
 417473417...00080/009
 ...00080/009
 265655234...00080/009
 164667134...00080/009
 174427164...00080/009
 164457134...00080/009
 164627164...00080/009
 164457134...00080/009
 264426354...00080/009
 134557124...00080/009
 724324762...00080/009
 664222664...00080/009
 714144727...00080/009
 774724764...00080/009
 135566134...00080/009
 753242562...00080/009
 473614464...00080/009
 215364424...00080/009
 462434444...00080/009
 226266224...00080/009

Sem Diff 70

230	131	
231	131	1MYSELF
232	131	2IDEALSELF

CD NO FILE: 000000/0ELWLS (13/00)

233	131	3IDEALMAN
234	131	4IDEALWOMAN
235	131	5IDHUSBAND
236	131	6IDEALWIFE
237	131	7MASCULINE
238	131	8FEMININE
239	131	9PAIN
240	131	10GUILT
241	131	11ILLNESS
242	131	12DIVORCE
243	131	13GOOD
244	131	14BAD
245	131	15STRONG
246	131	16WEAK
247	131	17ACTIVE
248	131	18PASSIVE
249	132	
250	132	1MYSELF
251	132	2IDEALSELF
252	132	3IDEALMAN
253	132	4IDEALWOMAN
254	132	5IDHUSBAND
255	132	6IDEALWIFE
256	132	7MASCULINE
257	132	8FEMININE
258	132	9PAIN
259	132	10GUILT
260	132	11ILLNESS
261	132	12DIVORCE
262	132	13GOOD
263	132	14BAD
264	132	15STRONG
265	132	16WEAK
266	132	17ACTIVE
267	132	18PASSIVE

...00080/009
333437143...00080/009
152437144...00080/009

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174437144...00080/009
253447133...00080/009
144437143...00080/009
163447143...00080/009
472417171...00080/009
234467114...00080/009
772423771...00080/009
562415653...00080/009
564144771...00080/009
565234741...00080/009
174417141...00080/009
774411771...00080/009
671415671...00080/009
117474417...00080/009
471414262...00080/009
237457471...00080/009

...00080/009
193645253...00080/009
172637121...00080/009
171717171...00080/009
171747131...00080/009
171737161...00080/009
173647111...00080/009
371717171...00080/009
152626262...00080/009
777112761...00080/009
613111771...00080/009
717173767...00080/009
716162676...00080/009
154547114...00080/009
626261762...00080/009
571416271...00080/009
217175717...00080/009
371515163...00080/009
117176117...00080/009

Sem Diff 71

268	133	
269	133	1MYSELF
270	133	2IDEALSELF
271	133	3IDEALMAN
272	133	4IDEALWOMAN
273	133	5IDHUSBAND
274	133	6IDEALWIFE
275	133	7MASCULINE
276	133	8FEMININE
277	133	9PAIN
278	133	10GUILT
279	133	11ILLNESS
280	133	12DIVORCE
281	133	13GOOD
282	133	14BAD
283	133	15STRONG
284	133	16WEAK
285	133	17ACTIVE
286	133	18PASSIVE
287	135	
288	135	1MYSELF
289	135	2IDEALSELF
290	135	3IDEALMAN

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(13/00)

291	135	4IDEALWOMAN
292	135	5IDHUSBAND
293	135	6IDEALWIFE
294	135	7MASCULINE
295	135	8FEMININE
296	135	9PAIN
297	135	10GUILT
298	135	11ILLNESS
299	135	12DIVORCE
300	135	13GOOD
301	135	14BAD
302	135	15STRONG
303	135	16WEAK
304	135	17ACTIVE
305	135	18PASSIVE

...00080/009
 171257151...00080/009
 171777141...00080/009
 271317141...00080/009
 271377111...00080/009
 371417171...00080/009
 171477141...00080/009
 571717171...00080/009
 371377121...00080/009
 414714461...00080/009
 711111711...00080/009
 474714441...00080/009
 771711771...00080/009
 171717141...00080/009
 771711771...00080/009
 171716171...00080/009
 417474717...00080/009
 171145141...00080/009
 117474315...00080/009
 ...00080/009
 144637232...00080/009
 164647142...00080/009
 162647263...00080/009

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14

16547231...00080/009
 174647162...00080/009
 264547143...00080/009
 471424361...00080/009
 146666214...00080/009
 771714671...00080/009
 577116571...00080/009
 717623652...00080/009
 677145443...00080/009
 144447144...00080/009
 761221671...00080/009
 572324471...00080/009
 317474427...00080/009
 471444171...00080/009
 326364536...00080/009

Sem Diff 72

306	136	
307	136	1MYSELF
308	136	2IDEALSELF
309	136	3IDEALMAN
310	136	4IDEALWOMAN
311	136	5IDHUSBAND
312	136	6IDEALWIFE
313	136	7MASCULINE
314	136	8FEMININE
315	136	9PAIN
316	136	10GUILTY
317	136	11ILLNESS
318	136	12DIVORCE
319	136	13GOOD
320	136	14BAD
321	136	15STRONG
322	136	16WEAK
323	136	17ACTIVE
324	136	18PASSIVE
325	139	
326	139	1MYSELF
327	139	2IDEALSELF
328	139	3IDEALMAN
329	139	4IDEALWOMAN
330	139	5IDHUSBAND
331	139	6IDEALWIFE
332	139	7MASCULINE
333	139	8FEMININE
334	139	9PAIN
335	139	10GUILTY
336	139	11ILLNESS
337	139	12DIVORCE
338	139	13GOOD
339	139	14BAD
340	139	15STRONG
341	139	16WEAK
342	139	17ACTIVE
343	139	18PASSIVE

	...00080/009
153657322...	00080/009
173667131...	00080/009
272527271...	00080/009
153567221...	00080/009
171617271...	00080/009
173847231...	00080/009
571615373...	00080/009
135576324...	00080/009
622633761...	00080/009
434333333...	00080/009
535335531...	00080/009
639334532...	00080/009
164547144...	00080/009
566331564...	00080/009
474434474...	00080/009
415576584...	00080/009
461644474...	00080/009
426344545...	00080/009
	...00080/009
251636142...	00080/009
152647142...	00080/009
264545263...	00080/009
152647142...	00080/009
154647193...	00080/009
161747142...	00080/009
271724272...	00080/009
334767115...	00080/009
571114751...	00080/009
571116711...	00080/009
652114414...	00080/009
471114711...	00080/009
174647134...	00080/009
771141747...	00080/009
472617171...	00080/009
316175617...	00080/009
271727171...	00080/009
226365426...	00080/009

See Diff 73

344 142
 345 142 1MYSELF
 346 142 2IDEALSELF
 347 142 3IDEALMAN
 348 142 4IDEALWOMAN

...00080/009
 363696133...00080/009
 262698121...00080/009
 271637171...00080/009
 233556222...00080/009

CD NO FILE: 000000/QELNLS (13/00)

8/13/79 (MONDAY) 16

349 142 5IDHUSBAND
 350 142 6IDEALWIFE
 351 142 7MASCULINE
 352 142 8FEMININE
 353 142 9PAIN
 354 142 10GUILT
 355 142 11ILLNESS
 356 142 12DIVORCE
 357 142 13GOOD
 358 142 14BAD
 359 142 15STRONG
 360 142 16WEAK
 361 142 17ACTIVE
 362 142 18PASSIVE
 363 143
 364 143 1MYSELF
 365 143 2IDEALSELF
 366 143 3IDEALMAN
 367 143 4IDEALWOMAN
 368 143 5IDHUSBAND
 369 143 6IDEALWIFE
 370 143 7MASCULINE
 371 143 8FEMININE
 372 143 9PAIN
 373 143 10GUILT
 374 143 11ILLNESS
 375 143 12DIVORCE
 376 143 13GOOD
 377 143 14BAD
 378 143 15STRONG
 379 143 16WEAK
 380 143 17ACTIVE
 381 143 18PASSIVE

172627171...00080/009
 263645132...00080/009
 673113575...00080/009
 233544434...00080/009
 777141746...00080/009
 624212644...00080/009
 527164624...00080/009
 717172744...00080/009
 173537193...00080/009
 764231563...00080/009
 572315374...00080/009
 317275615...00080/009
 262435253...00080/009
 225465425...00080/009
 ...00080/009
 244454343...00080/009
 172647142...00080/009
 171737162...00080/009
 162547132...00080/009
 262637171...00080/009
 172556244...00080/009
 571224375...00080/009
 255466224...00080/009
 732434631...00080/009
 722451651...00080/009
 717144634...00080/009
 554447662...00080/009
 144547344...00080/009
 624341444...00080/009
 673424364...00080/009
 415361545...00080/009
 471564274...00080/009
 336344445...00080/009

Sem Diff 74

382	144			344433833...00000/009
383	144	1MYSELF		274446211...00000/009
384	144	2IDEALSELF		164447211...00000/009
385	144	3IDEALMAN		184448211...00000/009
386	144	4IDEALWOMAN		174447211...00000/009
387	144	5IDHUSBAND		344445334...00000/009
388	144	6IDEALWIFE		272546321...00000/009
389	144	7MASCULINE		152447211...00000/009
390	144	8FEMININE		771447461...00000/009
391	144	9PAIN		562446461...00000/009
392	144	10GUILT		777417771...00000/009
393	144	11ILLNESS		567221652...00000/009
394	144	12DIVORCE		334446234...00000/009
395	144	13GOOD		450332662...00000/009
396	144	14BAD		343444363...00000/009
397	144	15STRONG		344445335...00000/009
398	144	16WEAK		455444444...00000/009
399	144	17ACTIVE		344444333...00000/009
400	144	18PASSIVE		...
401	146			...
402	146	1MYSELF		353436344...00000/009
403	146	2IDEALSELF		371657161...00000/009
404	146	3IDEALMAN		262647263...00000/009
405	146	4IDEALWOMAN		462647242...00000/009
406	146	5IDHUSBAND		462637262...00000/009

CD NO FILE: 000000/0ELWLS (13/00)

407	146	6IDEALWIFE		262657233...00000/009
408	146	7MASCULINE		462437262...00000/009
409	146	8FEMININE		224648224...00000/009
410	146	9PAIN		774714661...00000/009
411	146	10GUILT		424445643...00000/009
412	146	11ILLNESS		526234622...00000/009
413	146	12DIVORCE		435245444...00000/009
414	146	13GOOD		262646242...00000/009
415	146	14BAD		726242444...00000/009
416	146	15STRONG		473446462...00000/009
417	146	16WEAK		417172626...00000/009
418	146	17ACTIVE		462534262...00000/009
419	146	18PASSIVE		234446436...00000/009

Sem Diff 75

420	147		...00080/009
421	147	1MYSELF	235426455...00080/009
422	147	2IDEALSELF	254446143...00080/009
423	147	3IDEALMAN	254447242...00080/009
424	147	4IDEALWOMAN	174447243...00080/009
425	147	5IDHUSBAND	244447244...00080/009
426	147	6IDEALWIFE	244447144...00080/009
427	147	7MASCULINE	463430454...00080/009
428	147	8FEMININE	444444444...00080/009
429	147	9PAIN	545443435...00080/009
430	147	10GUILT	716441743...00080/009
431	147	11ILLNESS	536444646...00080/009
432	147	12DIVORCE	539433645...00080/009
433	147	13GOOD	354446344...00080/009
434	147	14BAD	644441645...00080/009
435	147	15STRONG	454444443...00080/009
436	147	16WEAK	436454545...00080/009
437	147	17ACTIVE	363444343...00080/009
438	147	18PASSIVE	435444545...00080/009
439	148		...00080/009
440	148	1MYSELF	362646233...00080/009
441	148	2IDEALSELF	273637142...00080/009
442	148	3IDEALMAN	353537252...00080/009
443	148	4IDEALWOMAN	363647233...00080/009
444	148	5IDHUSBAND	243547243...00080/009
445	148	6IDEALWIFE	253647233...00080/009
446	148	7MASCULINE	254537243...00080/009
447	148	8FEMININE	263646232...00080/009
448	148	9PAIN	444234543...00080/009
449	148	10GUILT	435343634...00080/009
450	148	11ILLNESS	636244635...00080/009
451	148	12DIVORCE	443426453...00080/009
452	148	13GOOD	164447144...00080/009
453	148	14BAD	614444544...00080/009
454	148	15STRONG	343647453...00080/009
455	148	16WEAK	514454636...00080/009
456	148	17ACTIVE	453534342...00080/009
457	148	18PASSIVE	425464435...00080/009

Sem Diff 76

458 149
 459 149 1MYSELF
 460 149 2IDEALSELF
 461 149 3IDEALMAN
 462 149 4IDEALWOMAN
 463 149 5IDHUSBAND
 464 149 6IDEALWIFE

...00000/009
 272457242...00000/009
 171457131...00000/009
 171427161...00000/009
 172447131...00000/009
 171427161...00000/009
 172447131...00000/009

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465 149 7MASCULINE
 466 149 8FEMININE
 467 149 9PAIN
 468 149 10GUILT
 469 149 11ILLNESS
 470 149 12DIVORCE
 471 149 13GOOD
 472 149 14BAD
 473 149 15STRONG
 474 149 16WEAK
 475 149 17ACTIVE
 476 149 18PASSIVE
 477 -99

171437142...00000/009
 174446144...00000/009
 744444741...00000/009
 714444744...00000/009
 744244647...00000/009
 444444444...00000/009
 164444444...00000/009
 624442444...00000/009
 473444464...00000/009
 414443424...00000/009
 462444254...00000/009
 426444426...00000/009
 ...00000/009

D OF FILE 477 RECORDS

25 18 2 7 145

THE MEANS ARE
E P A

1-	5.880	4.027	4.853	MYSELF
2-	6.573	4.133	5.453	IDEALSELF
3-	6.573	6.027	5.640	IDEALMAN
4-	6.560	3.987	5.360	IDEALWOMAN
5-	6.653	5.893	5.747	IDHUSBAND
6-	6.653	3.960	5.333	IDEALWIFE
7-	4.867	6.493	5.120	MASCULINE
8-	6.080	2.280	4.453	FEMININE
9-	1.960	5.000	3.880	PAIN
10-	2.107	4.213	3.747	GUILT
11-	2.480	3.307	2.773	ILLNESS
12-	2.027	3.867	3.000	DIVORCE
13-	6.773	4.507	4.827	GOOD
14-	1.600	4.240	3.547	BAD
15-	4.907	6.413	5.227	STRONG
16-	3.693	1.507	2.707	WEAK
17-	5.160	5.240	5.640	ACTIVE
18-	4.920	2.893	3.413	PASSIVE

THE MEANS DOUBLED ARE
E P A

1-	11.760	8.053	9.707	MYSELF
2-	13.147	8.267	10.907	IDEALSELF
3-	13.147	12.053	11.280	IDEALMAN
4-	13.120	7.973	10.720	IDEALWOMAN
5-	13.307	11.787	11.493	IDHUSBAND
6-	13.307	7.920	10.667	IDEALWIFE
7-	9.733	12.987	10.240	MASCULINE
8-	12.160	4.560	8.907	FEMININE
9-	3.920	10.000	7.760	PAIN
10-	4.213	8.427	7.493	GUILT
11-	4.960	6.613	5.547	ILLNESS
12-	4.053	7.733	6.000	DIVORCE
13-	13.547	9.013	9.653	GOOD
14-	3.200	8.480	7.093	BAD
15-	9.813	12.827	10.453	STRONG
16-	7.387	3.013	5.413	WEAK
17-	10.320	10.480	11.280	ACTIVE
18-	9.840	5.787	6.827	PASSIVE

THE SUMS ARE

1-	147.000	100.667	121.333	MYSELF
2-	164.333	103.333	136.333	IDEALSELF
3-	164.333	150.667	141.000	IDEALMAN
4-	164.000	99.667	134.000	IDEALWOMAN
5-	166.333	147.333	143.667	IDHUSBAND
6-	166.333	99.000	133.333	IDEALWIFE
7-	121.667	162.333	128.000	MASCULINE
8-	152.000	57.000	111.333	FEMININE
9-	49.000	125.000	97.000	PAIN
10-	52.667	105.333	93.667	GUILT
11-	62.000	82.667	69.333	ILLNESS
12-	50.667	96.667	75.000	DIVORCE
13-	169.333	112.667	120.667	GOOD
14-	40.000	106.000	88.667	BAD
15-	122.667	160.333	130.667	STRONG
16-	92.333	37.667	67.667	WEAK
17-	129.000	131.000	141.000	ACTIVE
18-	123.000	72.333	85.333	PASSIVE

THE SUMS OF THE SQUARES ARE

1-	882.111	434.559	606.000	MYSELF
2-	1092.333	448.444	762.778	IDEALSELF
3-	1090.778	918.889	815.000	IDEALMAN
4-	1086.222	418.555	735.555	IDEALWOMAN
5-	1111.000	885.333	842.556	IDHUSBAND
6-	1114.556	414.556	725.555	IDEALWIFE
7-	626.111	1059.222	674.222	MASCULINE
8-	941.333	149.444	523.333	FEMININE
9-	108.333	687.889	415.000	PAIN
10-	119.778	484.667	374.555	GUILT
11-	174.000	306.000	211.333	ILLNESS
12-	123.778	390.000	244.333	DIVORCE
13-	1150.889	531.556	592.667	GOOD
14-	67.778	480.444	341.778	BAD
15-	629.333	1033.889	697.333	STRONG
16-	367.000	64.778	193.000	WEAK
17-	687.000	701.000	807.667	ACTIVE
18-	623.889	242.778	320.000	PASSIVE

THE STANDARD DEVIATIONS ARE

1-	0.843	1.067	0.828	MYSELF
2-	0.696	0.924	0.879	IDEALSELF
3-	0.650	0.858	0.889	IDEALMAN
4-	0.644	0.921	0.832	IDEALWOMAN
5-	0.416	0.826	0.823	IDHUSBAND
6-	0.562	0.949	0.760	IDEALWIFE
7-	1.166	0.453	0.869	MASCULINE
8-	0.829	0.883	1.049	FEMININE
9-	0.701	1.586	1.243	PAIN
10-	0.594	1.278	0.972	GUILT
11-	0.900	1.143	0.873	ILLNESS
12-	0.919	0.806	0.879	DIVORCE
13-	0.397	0.976	0.640	GOOD
14-	0.389	1.114	1.045	BAD
15-	1.048	0.474	0.758	STRONG
16-	1.019	0.567	0.628	WEAK
17-	0.924	0.763	0.705	ACTIVE
18-	0.866	1.157	1.072	PASSIVE

THE STANDARD ERRORS OF THE MEANS ARE

1-	0.172	0.222	0.169	MYSELF
2-	0.142	0.189	0.179	IDEALSELF
3-	0.133	0.135	0.181	IDEALMAN
4-	0.132	0.188	0.170	IDEALWOMAN
5-	0.085	0.169	0.168	IDHUSBAND
6-	0.115	0.194	0.155	IDEALWIFE
7-	0.238	0.093	0.177	MASCULINE
8-	0.169	0.180	0.214	FEMININE
9-	0.143	0.324	0.254	PAIN
10-	0.121	0.261	0.198	GUILT
11-	0.184	0.233	0.178	ILLNESS
12-	0.187	0.164	0.180	DIVORCE
13-	0.081	0.199	0.131	GOOD
14-	0.079	0.227	0.213	BAD
15-	0.214	0.097	0.155	STRONG
16-	0.208	0.116	0.128	WEAK
17-	0.189	0.156	0.144	ACTIVE
18-	0.177	0.236	0.219	PASSIVE

CONC NO.	E	P	A	
1	5.880	4.027	4.853	MYSELF
2	6.573	4.133	5.453	IDEALSELF
3	6.573	6.027	5.540	IDEALMAN
4	6.560	3.987	5.360	IDEALWOMAN
5	6.653	5.893	5.747	IDHUSBAND
6	6.653	3.960	5.333	IDEALWIFE
7	4.867	6.493	5.120	MASCULINE
8	6.080	2.280	4.453	FEMININE
9	1.960	5.000	3.880	PAIN
10	2.107	4.213	3.747	GUILT
11	2.480	3.307	2.773	ILLNESS
12	2.027	3.867	3.000	DIVORCE
13	6.773	4.507	4.827	GOOD
14	1.600	4.240	3.547	BAD
15	4.907	6.413	5.227	STRONG
16	3.693	1.507	2.707	WEAK
17	5.160	5.240	5.040	ACTIVE
18	4.920	2.893	3.413	PASSIVE

THE DISTANCES BETWEEN THE CONCEPTS ARE SHOWN BELOW
 FIRST GROUP OF ROWS SHOWS CONCEPT 01 AGAINST 02, 03, 04 ETC.
 SECOND GROUP OF ROWS SHOWS CONCEPT 02 AGAINST 03, 04, 05, ETC.
 THIRD GROUP SHOWS CONCEPT 03 AGAINST THE OTHERS, FOURTH GROUP-
 CONCEPT 04 ETC. --

		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CONC	1	0.92	2.26	0.85	2.21	0.91	2.68	1.80	4.15	3.94	4.05	4.28	1.01	4.48	2.60	3.97
CONC	1	1.62	2.07													
CONC	2	1.90	0.17	1.79	0.23	2.93	2.16	4.95	4.78	4.96	5.17	0.76	5.33	2.83	4.77	1.80
CONC	2	2.90														
CONC	3	2.06	0.19	2.09	1.84	3.96	5.04	5.18	5.69	5.68	1.74	5.68	1.76	6.11	1.62	4.18
CONC	4	1.95	0.10	3.03	1.99	4.94	4.74	4.88	5.11	0.77	5.29	2.94	4.63	1.90	2.77	
CONC	5	1.98	1.99	3.88	5.13	5.24	5.74	5.75	1.67	5.75	1.89	6.10	1.63	4.18		
CONC	6	3.11	1.98	5.02	4.82	4.94	5.18	0.75	5.37	3.01	4.66	1.99	2.80			
CONC	7	4.43	3.50	3.83	4.62	4.41	2.77	4.27	0.14	5.66	1.39	3.98				
CONC	8	4.97	4.47	4.10	4.59	2.36	4.97	4.37	3.06	3.32	1.67					

Sem Diff 82

CONC	9	0.81	2.09	1.44	4.93	0.90	3.53	4.07	3.66	3.66
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CONC	10	1.38	0.83	4.80	0.55	3.86	3.30	3.74	3.13
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CONC	11	0.76	4.91	1.50	4.64	2.17	4.37	2.56
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CONC	12	5.13	0.79	4.44	2.90	4.32	3.08
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CONC	13	5.34	2.70	4.79	1.95	2.84
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CONC	14	4.30	3.54	4.25	3.59
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CONC	15	5.65	1.27	3.96
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CONC	16	4.97	1.98
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CONC	17	3.24
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Sem Diff 83

COMPUTER PRINTOUT FOR THE SEMANTIC DIFFERENTIAL

THE MEANS OF THE SUBSCALES ARE

1-	5.800	5.080	4.480	4.800	3.680	6.080	5.760	3.320	5.280	MYSELF
2-	6.560	6.160	5.320	5.320	3.320	6.360	6.800	2.920	5.720	IDEALSELF
3-	6.680	6.560	5.600	5.320	6.000	6.400	6.640	5.520	6.000	IDEALMAN
4-	6.520	5.680	5.120	5.240	3.360	6.400	6.760	2.920	5.720	IDEALWOMAN
5-	6.600	6.000	5.480	5.720	5.920	6.560	6.800	5.360	6.040	IDHUSBAND
6-	6.640	5.720	5.080	5.200	3.520	6.520	6.800	2.640	5.720	IDEALWIFE
7-	4.440	6.680	5.520	4.680	6.240	5.160	5.000	6.560	5.160	MASCULINE
8-	6.440	3.120	3.680	5.000	2.200	6.000	5.800	1.520	4.680	FEMININE
9-	1.400	4.440	3.320	3.160	5.480	3.160	1.320	5.080	5.160	PAIN
10-	2.240	3.280	3.920	2.920	4.600	2.360	1.720	4.760	4.400	GUILT
11-	2.080	2.080	2.320	2.800	4.440	3.560	1.800	3.400	3.200	ILLNESS
12-	1.960	2.560	2.680	2.120	4.360	2.560	1.560	4.680	4.200	DIVORCE
13-	6.800	5.640	4.760	4.480	4.280	6.840	6.680	3.600	5.240	GOOD
14-	1.120	3.440	3.920	2.640	4.080	1.320	2.360	5.200	4.080	BAD
15-	4.680	6.960	5.600	4.520	6.040	5.040	5.000	6.240	5.560	STRONG
16-	4.680	1.080	1.960	3.640	1.760	3.720	2.680	1.680	2.520	WEAK
17-	4.880	6.080	6.400	5.080	4.560	5.040	5.560	5.080	5.440	ACTIVE
18-	5.560	3.000	2.920	3.720	3.120	5.160	4.040	2.560	3.600	PASSIVE

THE SUMS ARE

1-	145.	127.	112.	120.	102.	152.	144.	83.	132.
2-	164.	154.	133.	133.	83.	159.	170.	73.	143.
3-	167.	164.	140.	133.	150.	160.	166.	138.	150.
4-	163.	142.	128.	131.	84.	160.	169.	73.	143.
5-	165.	160.	137.	143.	148.	164.	170.	134.	151.
6-	166.	143.	127.	130.	88.	163.	170.	66.	143.
7-	111.	167.	138.	117.	156.	129.	125.	164.	129.
8-	161.	78.	92.	125.	55.	150.	145.	38.	117.
9-	35.	111.	83.	79.	137.	79.	33.	127.	129.
10-	56.	82.	98.	73.	115.	59.	43.	119.	110.
11-	52.	52.	58.	70.	111.	89.	45.	85.	80.
12-	49.	64.	67.	53.	109.	64.	39.	117.	105.
13-	170.	141.	119.	112.	107.	171.	167.	90.	131.
14-	28.	86.	98.	66.	102.	33.	59.	130.	102.
15-	117.	174.	140.	113.	151.	126.	125.	156.	139.
16-	117.	27.	49.	91.	44.	93.	67.	42.	63.
17-	122.	152.	160.	127.	114.	126.	139.	127.	136.
18-	139.	75.	73.	93.	78.	129.	101.	64.	90.

THE SUMS OF THE SQUARES ARE

1"	869.	699.	542.	600.	378.	950.	874.	335.	730.
2"	1090.	974.	739.	735.	317.	1047.	1162.	273.	867.
3"	1125.	1084.	822.	755.	918.	1054.	1120.	814.	926.
4"	1071.	852.	688.	723.	310.	1062.	1149.	275.	849.
5"	1095.	1034.	783.	845.	892.	1094.	1160.	770.	943.
6"	1110.	861.	675.	712.	340.	1091.	1160.	238.	849.
7"	557.	1125.	802.	595.	990.	717.	657.	1090.	733.
8"	1051.	326.	386.	651.	143.	926.	889.	72.	599.
9"	67.	663.	357.	363.	807.	309.	51.	757.	799.
10"	144.	376.	464.	253.	571.	217.	85.	621.	552.
11"	170.	178.	196.	250.	545.	355.	95.	383.	306.
12"	121.	240.	253.	157.	541.	212.	79.	617.	505.
13"	1160.	841.	593.	522.	503.	1173.	1129.	376.	719.
14"	34.	396.	440.	226.	450.	51.	165.	722.	502.
15"	611.	1212.	826.	549.	931.	678.	643.	990.	803.
16"	585.	31.	117.	351.	92.	409.	211.	100.	187.
17"	622.	948.	1040.	677.	560.	668.	803.	687.	766.
18"	811.	293.	251.	371.	292.	695.	455.	208.	402.

THE STANDARD DEVIATIONS ARE

1"	1.058	1.468	1.269	0.980	1.256	1.017	1.335	1.542	1.150
2"	0.753	1.007	1.121	1.048	1.287	1.196	0.490	1.547	1.401
3"	0.614	0.571	1.233	1.378	0.849	1.095	0.843	1.446	1.020
4"	0.574	1.348	1.143	1.209	1.054	1.233	0.512	1.573	1.114
5"	0.490	0.632	1.136	1.040	0.796	0.852	0.400	1.439	1.113
6"	0.557	1.312	1.093	1.200	1.100	1.063	0.400	1.597	1.114
7"	1.602	0.614	1.269	1.378	0.814	1.433	1.131	0.753	1.641
8"	0.753	1.818	1.378	1.020	0.938	1.020	1.386	0.755	1.434
9"	0.849	2.609	1.805	2.129	1.500	1.541	0.546	2.115	2.310
10"	0.862	2.069	1.787	1.262	1.296	1.764	0.665	1.477	1.649
11"	1.573	1.671	1.568	1.470	1.444	1.235	0.748	1.939	1.414
12"	0.999	1.745	1.714	1.336	1.622	1.388	0.852	1.667	1.600
13"	0.400	1.353	1.031	0.900	1.342	0.367	0.733	1.442	1.141
14"	0.325	2.002	1.495	1.439	1.163	0.546	1.015	1.356	1.853
15"	1.593	0.196	1.296	1.237	0.871	1.311	0.849	0.814	1.098
16"	1.224	0.271	0.916	0.889	0.763	1.588	1.121	1.085	1.063
17"	1.032	0.977	0.800	1.129	1.267	1.148	1.098	1.294	1.023
18"	1.235	1.649	1.230	1.001	1.395	1.084	1.371	1.329	1.766

THE STANDARD ERRORS OF THE MEANS ARE

1-	0.216	0.300	0.259	0.200	0.256	0.208	0.273	0.315	0.235
2-	0.154	0.206	0.229	0.214	0.263	0.244	0.100	0.316	0.286
3-	0.125	0.117	0.252	0.281	0.173	0.224	0.172	0.295	0.208
4-	0.117	0.275	0.233	0.247	0.215	0.252	0.105	0.321	0.227
5-	0.100	0.129	0.232	0.212	0.162	0.174	0.082	0.294	0.227
6-	0.114	0.268	0.223	0.245	0.224	0.217	0.082	0.326	0.227
7-	0.327	0.125	0.259	0.281	0.166	0.293	0.231	0.154	0.335
8-	0.154	0.371	0.281	0.208	0.191	0.208	0.283	0.154	0.293
9-	0.173	0.533	0.368	0.435	0.306	0.315	0.111	0.432	0.471
10-	0.176	0.422	0.365	0.258	0.265	0.360	0.136	0.302	0.337
11-	0.321	0.341	0.320	0.300	0.295	0.252	0.153	0.396	0.289
12-	0.204	0.356	0.350	0.273	0.331	0.283	0.174	0.340	0.327
13-	0.082	0.276	0.210	0.184	0.274	0.075	0.150	0.294	0.233
14-	0.066	0.409	0.305	0.294	0.237	0.111	0.207	0.277	0.378
15-	0.325	0.040	0.265	0.252	0.178	0.268	0.173	0.166	0.224
16-	0.250	0.055	0.187	0.181	0.156	0.324	0.229	0.222	0.217
17-	0.211	0.199	0.163	0.230	0.259	0.234	0.224	0.264	0.209
18-	0.252	0.337	0.251	0.204	0.285	0.221	0.280	0.271	0.361
CONC NO.	1	2	3	4	5	6	7	8	9

1	5.800	5.080	4.480	4.800	3.680	6.080	5.760	3.320	5.280	MYSELF
2	6.560	6.160	5.320	5.320	3.320	6.360	6.800	2.920	5.720	IDEALSELF
3	6.680	6.560	5.600	5.320	6.000	6.400	6.640	5.520	6.000	IDEALMAN
4	6.520	5.680	5.120	5.240	3.360	6.400	6.760	2.920	5.720	IDEALWOMAN
5	6.600	6.400	5.480	5.720	5.920	6.560	6.800	5.360	6.040	IDHUSBAND
6	6.640	5.720	5.080	5.200	3.520	6.520	6.800	2.640	5.720	IDEALWIFE
7	4.440	6.680	5.520	4.680	6.240	5.160	5.000	6.560	5.160	MASCULINE
8	6.440	3.120	3.680	5.000	2.200	6.000	5.800	1.520	4.680	FEMININE
9	1.400	4.440	3.320	3.160	5.480	3.160	1.320	5.080	5.160	PAIN
10	2.240	3.280	3.920	2.920	4.600	2.360	1.720	4.760	4.400	GUILT
11	2.080	2.080	2.320	2.800	4.440	3.560	1.800	3.400	3.200	ILLNESS
12	1.960	2.560	2.680	2.120	4.360	2.560	1.560	4.680	4.200	DIVORCE
13	6.800	5.640	4.760	4.480	4.280	6.840	6.680	3.600	5.240	GOOD
14	1.120	3.440	3.920	2.640	4.080	1.320	2.360	5.200	4.080	BAD
15	4.680	6.960	5.600	4.520	6.040	5.040	5.000	6.240	5.560	STRONG
16	4.680	1.080	1.960	3.640	1.760	3.720	2.680	1.680	2.520	WEAK
17	4.880	6.080	6.400	5.080	4.560	5.040	5.560	5.080	5.440	ACTIVE
18	5.560	3.000	2.920	3.720	3.120	5.160	4.040	2.560	3.600	PASSIVE

THE OSGOOD DEES BETWEEN THE CONCEPTS ARE SHOWN BELOW
 FIRST GROUP OF ROWS SHOWS CONCEPT 01 AGAINST 02, 03, 04 ETC.
 SECOND GROUP OF ROWS SHOWS CONCEPT 02 AGAINST 03, 04, 05 ETC.
 THIRD GROUP SHOWS CONCEPT 03 AGAINST THE OTHERS. FOURTH GROUP-
 CONCEPT 04 ETC. --

		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CONC	1	2.09	4.01	1.74	3.91	1.90	4.90	3.28	7.64	7.32	7.65	8.06	1.83	8.30	4.69	7.35
CONC	1	3.26	3.94													
CONC	2	3.78	0.53	3.62	0.64	5.66	4.18	9.39	9.12	9.63	9.99	1.79	9.99	5.32	9.03	3.69
CONC	2	5.75														
CONC	3	3.85	0.54	3.94	3.39	6.98	9.07	9.20	10.23	10.21	3.11	10.11	3.17	10.85	3.12	7.40
CONC	4	3.68	0.37	5.68	3.76	9.21	8.90	9.32	9.72	1.59	9.80	5.38	8.68	3.74	5.37	
CONC	5	3.76	3.65	6.80	9.21	9.34	10.28	10.34	3.03	10.25	3.47	10.82	3.23	7.38		
CONC	6	5.86	3.76	9.37	9.08	9.43	9.87	1.58	9.99	5.56	8.75	3.98	5.44			
CONC	7	7.97	6.46	6.87	8.39	8.02	5.05	7.59	0.70	10.17	2.63	7.18				
CONC	8	9.08	8.26	7.71	8.62	4.29	9.23	7.82	5.65	6.20	3.15					

CONC 9 2.17 3.91 2.04 8.98 3.05 8.58 7.66 7.10 6.75

CONC 10 2.97 1.72 8.74 1.85 6.96 6.25 6.98 5.88

CONC 11 2.13 9.08 3.85 8.54 4.47 8.36 4.93

CONC 12 9.47 2.41 8.13 5.80 8.21 5.92

CONC 13 9.71 4.81 8.78 3.71 5.23

CONC 14 7.70 7.01 7.71 6.91

CONC 15 10.20 2.37 7.15

CONC 16 9.21 3.62

CONC 17 6.17

18 1 18
NO. OF CONCEPTS= 18 CONCEPT NO. 1 TO CONCEPT NO. 18

A(I)= 0.92 B(I)= 2.09

A(I)= 2.26 B(I)= 4.01

A(I)= 0.85 B(I)= 1.74

A(I)= 2.21 B(I)= 3.91

A(I)= 0.91 B(I)= 1.90

A(I)= 2.68 B(I)= 4.90

A(I)= 1.80 B(I)= 3.28

A(I)= 4.15 B(I)= 7.64

A(I)= 3.94 B(I)= 7.32

A(I)= 4.05 B(I)= 7.65

FNNN=0.3581E+07 X=0.2984E+06 Y=0.2984E+06 D= 2830.

O SPEARMAN RANK CORRELATION COEFFICIENT= 1.00

SIGNIFICANCE= 125.751

NUMBER OF DEGREES OF FREEDOM= 151

25 18 2 104 149

Women - Low

THE MEANS ARE

	E	P	A	
1-	5.987	4.173	5.107	MYSELF
2-	6.720	4.467	5.733	IDEALSELF
3-	6.600	5.827	5.640	IDEALMAN
4-	6.587	4.307	5.480	IDEALWOMAN
5-	6.693	5.653	5.600	IDHUSBAND
6-	6.680	4.280	5.413	IDEALWIFE
7-	5.253	6.227	5.347	MASCULINE
8-	6.053	2.960	4.760	FEMININE
9-	2.147	5.013	4.533	PAIN
10-	2.293	4.427	4.067	GUILT
11-	2.573	3.440	3.173	ILLNESS
12-	2.867	4.520	3.827	DIVORCE
13-	6.613	4.347	4.800	GOOD
14-	1.800	4.840	3.813	BAD
15-	4.507	6.347	5.120	STRONG
16-	3.653	1.547	2.613	WEAK
17-	5.027	5.480	5.587	ACTIVE
18-	4.760	2.507	3.067	PASSIVE

THE MEANS DOUBLED ARE

	E	P	A	
1-	11.973	8.347	10.213	MYSELF
2-	13.440	8.933	11.467	IDEALSELF
3-	13.200	11.653	11.280	IDEALMAN
4-	13.173	8.613	10.960	IDEALWOMAN
5-	13.387	11.307	11.200	IDHUSBAND
6-	13.360	8.560	10.827	IDEALWIFE
7-	10.507	12.453	10.693	MASCULINE
8-	12.107	5.920	9.520	FEMININE
9-	4.293	10.027	9.067	PAIN
10-	4.587	8.853	8.133	GUILT
11-	5.147	6.880	6.347	ILLNESS
12-	5.733	9.040	7.653	DIVORCE
13-	13.227	8.693	9.600	GOOD
14-	3.600	9.680	7.627	BAD
15-	9.013	12.693	10.240	STRONG
16-	7.307	3.093	5.227	WEAK
17-	10.053	10.960	11.173	ACTIVE
18-	9.520	5.013	6.133	PASSIVE

THE SUMS ARE

1-	149.667	104.333	127.667
2-	168.000	111.667	143.333
3-	165.000	145.667	141.000
4-	164.667	107.667	137.000
5-	167.333	141.333	140.000
6-	167.000	107.000	135.333
7-	131.333	155.667	133.667
8-	151.333	74.000	119.000
9-	53.667	125.333	113.333
10-	57.333	110.667	101.667
11-	64.333	86.000	79.333
12-	71.667	113.000	95.667
13-	165.333	108.667	120.000
14-	45.000	121.000	95.333
15-	112.667	158.667	128.000
16-	91.333	38.667	65.333
17-	125.667	137.000	139.667
18-	119.000	62.667	76.667

MYSELF
 IDEALSELF
 IDEALMAN
 IDEALWOMAN
 IDHUSBAND
 IDEALWIFE
 MASCULINE
 FEMININE
 PAIN
 GUILT
 ILLNESS
 DIVORCE
 GOOD
 BAD
 STRONG
 WEAK
 ACTIVE
 PASSIVE

THE SUMS OF THE SQUARES ARE

1-	910.333	449.000	668.333
2-	1134.222	508.333	833.556
3-	1093.667	866.333	812.111
4-	1093.778	477.222	762.111
5-	1130.222	821.556	799.778
6-	1121.000	468.333	747.111
7-	734.667	985.444	745.889
8-	932.000	257.333	579.667
9-	132.111	661.778	560.222
10-	159.556	524.667	437.000
11-	180.556	347.333	292.222
12-	247.667	549.667	403.000
13-	1101.333	489.111	594.667
14-	89.222	619.000	389.333
15-	528.667	1025.778	674.667
16-	356.667	72.889	192.222
17-	644.111	766.555	793.222
18-	588.111	182.222	256.000

MYSELF
 IDEALSELF
 IDEALMAN
 IDEALWOMAN
 IDHUSBAND
 IDEALWIFE
 MASCULINE
 FEMININE
 PAIN
 GUILT
 ILLNESS
 DIVORCE
 GOOD
 BAD
 STRONG
 WEAK
 ACTIVE
 PASSIVE

THE STANDARD DEVIATIONS ARE

1-	0.757	0.737	0.810	MYSELF
2-	0.459	0.618	0.686	IDEALSELF
3-	0.432	0.839	0.821	IDEALMAN
4-	0.606	0.736	0.674	IDEALWOMAN
5-	0.639	0.950	0.794	IDHUSBAND
6-	0.466	0.644	0.762	IDEALWIFE
7-	1.338	0.804	1.117	MASCULINE
8-	0.798	1.238	0.727	FEMININE
9-	0.822	1.157	1.363	PAIN
10-	1.060	1.180	0.971	GUILT
11-	0.775	1.435	1.272	ILLNESS
12-	1.300	1.248	1.215	DIVORCE
13-	0.563	0.819	0.864	GOOD
14-	0.573	1.155	1.016	BAD
15-	0.915	0.867	0.879	STRONG
16-	0.959	0.723	0.927	WEAK
17-	0.705	0.795	0.720	ACTIVE
18-	0.931	1.003	0.914	PASSIVE

THE STANDARD ERRORS OF THE MEANS ARE

1-	0.155	0.150	0.165	MYSELF
2-	0.094	0.126	0.140	IDEALSELF
3-	0.088	0.171	0.168	IDEALMAN
4-	0.124	0.150	0.138	IDEALWOMAN
5-	0.130	0.194	0.162	IDHUSBAND
6-	0.095	0.131	0.155	IDEALWIFE
7-	0.273	0.164	0.228	MASCULINE
8-	0.163	0.253	0.148	FEMININE
9-	0.168	0.236	0.278	PAIN
10-	0.216	0.241	0.198	GUILT
11-	0.158	0.293	0.260	ILLNESS
12-	0.265	0.255	0.248	DIVORCE
13-	0.115	0.167	0.176	GOOD
14-	0.117	0.236	0.207	BAD
15-	0.187	0.177	0.179	STRONG
16-	0.196	0.148	0.189	WEAK
17-	0.144	0.162	0.147	ACTIVE
18-	0.190	0.205	0.187	PASSIVE

CONC E P A
NO.

1	5.987	4.173	5.107	MYSELF
2	6.720	4.467	5.733	IDEALSELF
3	6.600	5.827	5.640	IDEALMAN
4	6.587	4.307	5.480	IDEALWOMAN
5	6.693	5.653	5.600	IDHUSBAND
6	6.680	4.280	5.413	IDEALWIFE
7	5.253	6.227	5.347	MASCULINE
8	6.053	2.960	4.760	FEMININE
9	2.147	5.013	4.533	PAIN
10	2.293	4.427	4.067	GUILT
11	2.573	3.440	3.173	ILLNESS
12	2.867	4.520	3.827	DIVORCE
13	6.613	4.347	4.800	GOOD
14	1.800	4.840	3.813	BAD
15	4.507	6.347	5.120	STRONG
16	3.653	1.547	2.613	WEAK
17	5.027	5.480	5.587	ACTIVE
18	4.760	2.507	3.067	PASSIVE

THE DISTANCES BETWEEN THE CONCEPTS ARE SHOWN BELOW
 FIRST GROUP OF ROWS SHOWS CONCEPT 01 AGAINST 02, 03, 04 ETC.
 SECOND GROUP OF ROWS SHOWS CONCEPT 02 AGAINST 03, 04, 05, ETC.
 THIRD GROUP SHOWS CONCEPT 03 AGAINST THE OTHERS. FOURTH GROUP-
 CONCEPT 04 ETC. --

		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CONC	1	1.01	1.84	0.72	1.71	0.77	2.19	1.26	3.97	3.85	3.99	3.39	0.72	4.43	2.63	4.31
CONC	1	1.69	2.91													
CONC	2	1.37	0.33	1.19	0.37	2.32	1.91	4.76	4.73	4.98	4.30	0.95	5.29	2.97	5.26	1.98
CONC	2	3.85														
CONC	3	1.53	0.20	1.57	1.44	3.05	4.66	4.79	5.29	4.35	1.70	5.23	2.22	6.01	1.61	4.59
CONC	4	1.36	0.12	2.34	1.62	4.59	4.52	4.71	4.08	0.68	5.10	2.94	4.94	1.95	3.52	
CONC	5	1.39	1.57	2.89	4.71	4.82	5.27	4.37	1.53	5.27	2.34	5.92	1.68	4.48		
CONC	6	2.41	1.00	4.68	4.59	4.75	4.14	0.62	5.1	3.01	4.95	2.05	3.51			
CONC	7	3.41	3.43	3.69	4.44	3.30	2.38	4.02	0.79	5.65	0.82	4.39				
CONC	8	4.42	4.10	3.85	3.67	1.50	4.75	3.74	3.52	2.84	2.18					

CONC 9 0.76 2.12 1.12 4.52 0.82 2.77 4.24 3.10 3.91

CONC 10 1.36 0.63 4.38 0.69 3.11 3.50 3.30 3.28

CONC 11 1.30 4.45 1.72 4.00 2.25 4.00 2.38

CONC 12 3.87 1.11 2.77 3.31 2.95 2.87

CONC 13 4.94 2.92 4.62 2.10 3.13

CONC 14 3.36 3.96 3.74 3.84

CONC 15 5.48 1.11 4.36

CONC 16 5.12 1.53

CONC 17 3.91

¹
COMPUTER PRINTOUT FOR THE SEMANTIC DIFFERENTIAL

THE MEANS OF THE SUBSCALES ARE

1-	5.960	5.040	5.040	4.880	3.720	6.120	5.880	3.760	5.400	MYSELF
2-	6.640	6.320	5.680	5.200	3.520	6.800	6.720	3.560	6.320	IDEALSELF
3-	6.320	6.560	5.760	5.160	5.480	6.880	6.600	5.440	6.000	IDEALMAN
4-	6.480	5.960	5.240	5.040	3.600	6.760	6.520	3.360	6.160	IDEALWOMAN
5-	6.560	6.280	5.520	5.360	5.160	6.880	6.640	5.520	5.920	IDHUSBAND
6-	6.600	5.840	5.280	5.320	3.560	6.760	6.680	3.440	5.640	IDEALWIFE
7-	4.760	6.600	6.120	4.480	6.160	5.480	5.520	5.920	5.440	MASCULINE
8-	6.280	3.840	4.280	5.160	2.720	6.000	5.880	2.320	4.840	FEMININE
9-	1.520	4.280	4.160	3.560	5.560	3.440	1.480	5.200	5.880	PAIN
10-	2.240	3.840	4.200	2.600	5.160	2.760	1.880	4.280	5.400	GUILTY
11-	2.000	2.760	2.880	3.000	4.320	4.000	1.720	3.240	3.640	ILLNESS
12-	2.560	4.360	3.800	2.600	4.640	3.840	2.200	4.560	5.080	DIVORCE
13-	6.720	5.360	4.560	4.800	4.160	6.800	6.320	3.520	5.040	GOOD
14-	1.520	4.320	4.240	2.720	4.760	1.440	2.440	5.440	4.480	BAD
15-	4.040	6.680	5.520	4.280	5.800	4.840	4.640	6.560	5.560	STRONG
16-	4.440	1.200	2.120	3.240	1.800	3.840	2.680	1.640	2.480	WEAK
17-	4.760	6.160	6.440	4.840	4.760	4.560	5.760	5.520	5.480	ACTIVE
18-	5.480	2.120	2.320	3.720	2.800	4.800	4.000	2.600	3.160	PASSIVE

THE SUMS ARE

1"	149.	126.	126.	122.	93.	153.	147.	94.	135.
2"	166.	158.	142.	130.	88.	170.	168.	89.	158.
3"	158.	164.	144.	129.	137.	172.	165.	136.	150.
4"	162.	149.	131.	126.	90.	169.	163.	84.	154.
5"	164.	157.	138.	134.	129.	172.	166.	138.	148.
6"	165.	146.	132.	133.	89.	169.	167.	86.	141.
7"	119.	165.	153.	112.	154.	137.	138.	148.	136.
8"	157.	96.	107.	129.	68.	150.	147.	58.	121.
9"	38.	107.	104.	89.	139.	86.	37.	130.	147.
10"	56.	96.	105.	65.	129.	69.	47.	107.	135.
11"	50.	69.	72.	75.	108.	100.	43.	81.	91.
12"	64.	109.	95.	65.	116.	96.	55.	114.	127.
13"	168.	134.	114.	120.	104.	170.	158.	88.	126.
14"	38.	108.	106.	68.	119.	36.	61.	136.	112.
15"	101.	167.	138.	107.	145.	121.	116.	164.	139.
16"	111.	30.	53.	81.	45.	96.	67.	41.	62.
17"	119.	154.	161.	121.	119.	114.	144.	138.	137.
18"	137.	53.	58.	93.	70.	120.	100.	65.	79.

THE SUMS OF THE SQUARES ARE

1"	913.	670.	676.	632.	388.	959.	891.	386.	755.
2"	1112.	1018.	842.	702.	342.	1160.	1154.	349.	1024.
3"	1016.	1086.	860.	705.	775.	1188.	1095.	796.	930.
4"	1066.	909.	723.	664.	350.	1153.	1075.	322.	972.
5"	1096.	1009.	794.	750.	703.	1192.	1114.	814.	906.
6"	1097.	884.	728.	737.	331.	1151.	1123.	330.	827.
7"	645.	1101.	961.	588.	968.	819.	800.	924.	796.
8"	1007.	428.	493.	693.	234.	928.	889.	186.	633.
9"	80.	601.	548.	433.	813.	350.	71.	734.	931.
10"	150.	510.	521.	229.	721.	287.	113.	535.	775.
11"	124.	297.	292.	337.	550.	444.	93.	349.	449.
12"	206.	567.	463.	247.	606.	462.	169.	580.	697.
13"	1140.	762.	548.	594.	476.	1160.	1024.	330.	674.
14"	78.	562.	500.	244.	605.	66.	183.	772.	572.
15"	447.	1135.	786.	505.	891.	619.	574.	1090.	827.
16"	533.	48.	147.	297.	109.	424.	207.	89.	202.
17"	589.	960.	1059.	629.	613.	538.	854.	800.	787.
18"	779.	141.	162.	369.	226.	606.	438.	217.	307.

THE STANDARD DEVIATIONS ARE

1-	0.999	1.183	1.280	1.211	1.217	0.952	1.032	1.141	1.020
2-	0.625	0.882	1.191	1.020	1.136	0.400	1.001	1.134	1.009
3-	0.835	0.637	1.106	1.255	0.985	0.431	0.490	1.499	1.095
4-	0.806	0.916	1.209	1.076	1.020	0.650	0.700	1.261	0.967
5-	0.898	0.960	1.136	1.127	1.222	0.588	0.686	1.446	1.093
6-	0.566	1.120	1.114	1.085	0.753	0.585	0.546	1.169	1.127
7-	1.773	0.693	0.993	1.857	0.880	1.652	1.237	1.383	1.499
8-	0.917	1.541	1.184	1.046	1.401	1.058	0.993	1.434	1.376
9-	0.943	2.392	2.148	2.156	1.267	1.472	0.806	1.523	1.633
10-	0.991	2.378	1.789	1.549	1.488	1.965	0.993	1.755	1.356
11-	0.980	2.065	1.840	2.117	1.827	1.327	0.873	1.861	2.170
12-	1.299	1.916	2.020	1.766	1.646	1.932	1.386	1.551	1.440
13-	0.665	1.323	1.061	0.849	1.317	0.400	1.009	0.900	1.248
14-	0.900	1.954	1.422	1.537	1.242	0.753	1.169	1.134	1.676
15-	1.248	0.882	0.985	1.372	1.414	1.155	1.196	0.753	1.472
16-	1.267	0.693	1.177	1.176	1.058	1.488	1.048	0.933	1.389
17-	0.950	0.674	0.941	1.317	1.365	0.852	0.991	1.237	1.204
18-	1.063	1.070	1.048	0.960	1.095	1.095	1.233	1.386	1.515

THE STANDARD ERRORS OF THE MEANS ARE

1-	0.204	0.241	0.261	0.247	0.248	0.194	0.211	0.233	0.208
2-	0.128	0.180	0.243	0.208	0.232	0.082	0.204	0.232	0.206
3-	0.170	0.130	0.226	0.256	0.201	0.088	0.100	0.306	0.224
4-	0.165	0.187	0.247	0.220	0.208	0.133	0.143	0.257	0.197
5-	0.183	0.196	0.232	0.230	0.250	0.120	0.140	0.295	0.223
6-	0.115	0.229	0.227	0.222	0.154	0.119	0.111	0.239	0.230
7-	0.362	0.141	0.203	0.379	0.180	0.337	0.252	0.282	0.306
8-	0.187	0.315	0.242	0.214	0.286	0.216	0.203	0.293	0.281
9-	0.193	0.488	0.438	0.440	0.259	0.300	0.165	0.311	0.333
10-	0.202	0.485	0.365	0.316	0.304	0.401	0.203	0.358	0.277
11-	0.200	0.421	0.376	0.432	0.373	0.271	0.178	0.380	0.443
12-	0.265	0.391	0.412	0.361	0.336	0.394	0.283	0.317	0.294
13-	0.136	0.270	0.217	0.173	0.269	0.082	0.206	0.184	0.255
14-	0.184	0.399	0.290	0.314	0.254	0.154	0.239	0.232	0.342
15-	0.255	0.180	0.201	0.280	0.289	0.236	0.244	0.154	0.300
16-	0.259	0.141	0.240	0.240	0.216	0.304	0.214	0.190	0.284
17-	0.194	0.138	0.192	0.269	0.279	0.174	0.202	0.252	0.246
18-	0.217	0.218	0.214	0.196	0.224	0.224	0.252	0.283	0.309

CONC
NO.

1 2 3 4 5 6 7 8 9

1	5.960	5.040	5.040	4.880	3.720	6.120	5.880	3.760	5.400	MYSELF
2	6.640	6.320	5.680	5.200	3.520	6.800	6.720	3.560	6.320	IDEALSELF
3	6.320	6.560	5.760	5.160	5.480	6.880	6.600	3.440	6.000	IDEALMAN
4	6.480	5.960	5.240	5.040	3.600	6.760	6.520	3.360	6.160	IDEALWOMAN
5	6.560	6.280	5.520	5.360	5.160	6.880	6.640	3.520	5.920	IDHUSBAND
6	6.600	5.840	5.280	5.320	3.560	6.760	6.680	3.440	5.640	IDEALWIFE
7	4.760	6.600	6.120	4.480	6.160	5.480	5.520	5.920	5.440	MASCULINE
8	6.280	3.840	4.280	5.160	2.720	6.000	5.880	2.320	4.840	FEMININE
9	1.520	4.280	4.160	3.560	5.560	3.440	1.480	5.200	5.880	PAIN
10	2.240	3.840	4.200	2.600	5.160	2.760	1.880	4.280	5.400	GUILT
11	2.000	2.760	2.880	3.000	4.320	4.000	1.720	3.240	3.640	ILLNESS
12	2.560	4.360	3.800	2.600	4.640	3.840	2.200	4.560	5.080	DIVORCE
13	6.720	5.360	4.560	4.800	4.160	6.800	6.320	3.520	5.040	GOOD
14	1.520	4.320	4.240	2.720	4.760	1.440	2.440	5.440	4.480	BAD
15	4.040	6.680	5.520	4.280	5.800	4.840	4.640	6.560	5.560	STRONG
16	4.440	1.200	2.120	3.240	1.800	3.840	2.680	1.640	2.480	WEAK
17	4.760	6.160	6.440	4.840	4.760	4.560	5.760	5.520	5.480	ACTIVE
18	5.480	2.120	2.320	3.720	2.800	4.800	4.000	2.600	3.160	PASSIVE

THE OSGOOD DEES BETWEEN THE CONCEPTS ARE SHOWN BELOW
 FIRST GROUP OF ROWS SHOWS CONCEPT 01 AGAINST 02, 03, 04 ETC.
 SECOND GROUP OF ROWS SHOWS CONCEPT 02 AGAINST 03, 04, 05 ETC.
 THIRD GROUP SHOWS CONCEPT 03 AGAINST THE OTHERS. FOURTH GROUP-
 CONCEPT 04 ETC. --

		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CONC	1	2.17	3.23	1.66	2.99	1.59	4.04	2.37	7.42	7.13	7.39	6.25	1.40	8.00	4.73	7.77
CONC	1	3.36	5.48													
CONC	2	2.77	0.70	2.60	0.94	4.56	3.74	9.01	8.85	9.36	7.99	2.13	9.69	5.54	9.70	4.04
CONC	2	7.44														
CONC	3	2.93	0.59	2.95	2.68	5.44	8.45	8.61	9.48	7.77	3.10	9.28	3.95	10.69	3.17	8.29
CONC	4	2.73	0.64	4.55	3.17	8.63	8.42	8.81	7.54	1.60	9.33	5.46	9.10	4.05	6.81	
CONC	5	2.69	3.01	5.13	8.56	8.68	9.45	7.82	2.83	9.34	4.18	10.46	3.30	8.03		
CONC	6	4.62	2.99	8.82	8.60	8.87	7.71	1.38	9.44	5.57	9.02	4.07	6.70			
CONC	7	6.27	6.49	6.75	8.09	6.06	4.50	7.16	1.63	10.18	1.86	8.12				
CONC	8	8.29	7.71	7.23	6.92	2.66	8.69	6.80	6.36	5.42	4.17					

See Diff 99

CONC	9	1.87	3.91	2.17	8.37	2.88	5.33	7.89	6.43	7.33
CONC	10	3.09	1.50	8.07	2.27	5.78	6.72	6.46	6.35	
CONC	11	2.84	8.13	4.17	7.37	4.50	7.79	4.71		
CONC	12	7.13	2.87	5.09	6.35	5.86	5.66			
CONC	13	8.98	5.38	8.28	4.23	5.82				
CONC	14	5.99	7.49	6.71	7.25					
CONC	15	9.87	2.33	8.02						
CONC	16	9.42	2.69							
CONC	17	7.48								

18	1	18		
NO. OF	CONCEPTS=	18	CONCEPT NO.	1 TO CONCEPT NO. 18
A(I)=	1.01	B(I)=	2.17	
A(I)=	1.84	B(I)=	3.23	
A(I)=	0.72	B(I)=	1.66	
A(I)=	1.71	B(I)=	2.99	
A(I)=	0.77	B(I)=	1.59	
A(I)=	2.19	B(I)=	4.04	
A(I)=	1.26	B(I)=	2.37	
A(I)=	3.97	B(I)=	7.42	
A(I)=	3.85	B(I)=	7.13	
A(I)=	3.99	B(I)=	7.39	

FNNN=0.3581E+07 X=0.2984E+06 Y=0.2984E+06 D= 2377.
 O SPEARMAN RANK CORRELATION COEFFICIENT= 1.00
 SIGNIFICANCE= 137.279
 NUMBER OF DEGREES OF FREEDOM= 151

ANALYSIS OF RESPONSES BY High Women

CONCEPT	GOOD VS BAD				STRONG VS WEAK				ACTIVE VS PASSIVE			
	P	Z	T	SIGN	P	Z	T	SIGN	P	Z	T	SIGN
1. MYSELF	0.00001	4.37237	0.	-	0.00089	3.32300	39.	-	0.33133	0.97143	116.	-
2. IDEALSELF	0.00001	4.37237	0.	-	0.00006	4.02258	13.	-	0.01100	2.54286	61.	-
3. IDEALMAN	0.00001	4.34547	1.	-	0.00001	4.37237	0.	-	0.00005	4.04949	12.	-
4. IDEALWOMAN	0.00001	4.37237	0.	-	0.00004	4.13021	9.	-	0.00493	2.81177	58.	-
5. IDHUSBAND	0.00001	4.37237	0.	-	0.00001	4.37237	0.	-	0.00004	4.10330	10.	-
6. IDEALWIFE	0.00001	4.37237	0.	-	0.00010	3.89311	10.	-	0.03467	2.11219	84.	-
7. MASCULINE	0.00092	3.31429	34.	-	0.00001	4.37237	0.	-	0.00002	4.25714	1.	-
8. FEMININE	0.00002	4.23784	5.	-	0.01489	2.43508	72.	+	0.01100	2.54286	61.	+
9. PAIN	0.00004	4.10330	10.	+	0.47582	0.71303	136.	-	0.88235	0.14799	157.	-
10. GUILT	0.00003	4.15712	8.	+	0.38186	0.87447	130.	+	0.42734	0.79375	133.	+
11. ILLNESS	0.00010	3.88805	18.	+	0.00005	4.04949	12.	+	0.01018	2.56961	67.	+
12. DIVORCE	0.00002	4.29165	3.	+	0.00857	2.62857	58.	+	0.04501	2.00456	88.	+

NOTE A NEGATIVE SIGN MEANS THAT THE COMPARED CONCEPT IS CLOSER TO THE FIRST OF THE TWO COMPARISON CONCEPT

P = PROBABILITY OF BEING LESS THAN (TWO-TAILED TEST)

Z = STANDARD SCORE

T = SUM OF RANKS + OR - DIFFERENCES WHICHEVER IS SMALLER

ANALYSIS OF RESPONSES BY Low Women

CONCEPT	GOOD VS BAD				STRONG VS WEAK				ACTIVE VS PASSIVE			
	P	Z	T	SIGN	P	Z	T	SIGN	P	Z	T	SIGN
1. MYSELF	0.00001	4.37237	0.	-	0.00069	3.32300	39.	-	0.00357	2.91429	48.	-
2. IDEALSELF	0.00001	4.37237	0.	-	0.00008	3.94186	16.	-	0.00010	3.88805	18.	-
3. IDEALMAN	0.00001	4.37237	0.	-	0.00001	4.37237	0.	-	0.00002	4.31856	2.	-
4. IDEALWOMAN	0.00001	4.37237	0.	-	0.00019	3.72661	24.	-	0.00055	3.45754	34.	-
5. IDHUSBAND	0.00001	4.37237	0.	-	0.00002	4.23784	5.	-	0.00004	4.13021	9.	-
6. IDEALWIFE	0.00001	4.37237	0.	-	0.00049	3.48445	33.	-	0.00040	3.53826	31.	-
7. MASCULINE	0.00804	2.65033	64.	-	0.00001	4.34547	1.	-	0.00003	4.18402	7.	-
8. FEMININE	0.00003	4.21093	6.	-	0.33948	0.95520	127.	+	0.35326	0.92829	128.	+
9. PAIN	0.00013	3.83423	20.	+	0.00037	2.63688	65.	-	0.24143	1.17143	109.	-
10. GUILT	0.00008	3.94186	16.	+	0.29045	1.05714	113.	-	0.71032	0.37143	137.	-
11. ILLNESS	0.00130	3.21538	43.	+	0.00351	2.91940	54.	+	0.01382	2.46198	71.	+
12. DIVORCE	0.00416	2.86559	56.	+	0.22085	1.22426	117.	-	0.61864	0.49778	144.	-

NOTE A NEGATIVE SIGN MEANS THAT THE COMPARED CONCEPT IS CLOSER TO THE FIRST OF THE TWO COMPARISON CONCEPTS

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ANALYSIS OF RESPONSES - POSITIVE - High vs. Low Women

CONCEPT	GOOD				STRONG				ACTIVE			
	P	Z	T	SIGN	P	Z	T	SIGN	P	Z	T	SIGN
1. MYSELF	0.37577	0.88571	119.	+	0.61864	0.49778	144.	+	0.20870	1.25714	106.	+
2. IDEALSELF	0.96781	0.04036	161.	-	0.85060	0.18835	156.	-	0.26995	1.10318	122.	+
3. IDEALMAN	0.95443	0.05714	148.	+	0.04221	2.03147	87.	-	0.88235	0.14799	157.	+
4. IDEALWOMAN	0.66824	0.42857	135.	-	0.45934	0.73994	135.	-	0.42734	0.79375	133.	+
5. IDEALHUSBAND	0.92730	0.09124	135.	+	0.06148	1.87003	93.	-	0.98927	0.01345	162.	-
6. IDEALWIFE	0.66824	0.42857	135.	+	0.96781	0.04036	161.	+	0.27761	1.08571	112.	+
7. MASCULINE	0.47582	0.71303	136.	+	0.05437	1.92384	91.	-	0.33948	0.95520	127.	+
8. FEMININE	0.11608	1.57143	95.	+	0.36739	0.90138	129.	+	0.49263	0.68613	137.	+
9. PAIN	0.18290	1.33189	113.	+	0.03967	2.05714	78.	+	0.21087	1.25117	116.	+
10. GUILT	0.39668	0.84757	131.	+	0.14190	1.30499	114.	+	0.56293	0.57850	141.	+
11. ILLNESS	0.69643	0.39015	148.	+	0.30024	1.03592	124.	+	0.96781	0.04036	161.	+
12. DIVORCE	0.01188	2.51580	69.	+	0.00631	2.73105	61.	+	0.06531	1.84312	94.	+

NOTE A NEGATIVE SIGN MEANS THAT THE COMPARED CONCEPT IS CLOSER TO THE FIRST GROUP

P = PROBABILITY OF BEING LESS THAN (TWO-TAILED TEST)

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ANALYSIS OF RESPONSES - NEGATIVE High vs. Low Women

CONCEPT	BAD				WEAK				PASSIVE			
	P	Z	T	SIGN	P	Z	T	SIGN	P	Z	T	SIGN
1. MYSELF	0.65707	0.44396	146.	+	0.98927	0.01345	162.	-	0.38186	0.87447	130.	-
2. IDEALSELF	0.71032	0.37143	137.	+	0.47582	0.71303	136.	-	0.03325	2.12905	68.	-
3. IDEALMAN	0.36739	0.90138	129.	+	0.59980	0.52468	143.	+	0.31297	1.00901	125.	-
4. IDEALWOMAN	0.75699	0.30943	151.	+	0.63773	0.47087	145.	-	0.12183	1.54715	105.	-
5. IDHUSBAND	0.42734	0.79375	133.	+	0.77754	0.28252	152.	+	0.45934	0.73994	135.	-
6. IDEALWIFE	0.52718	0.63231	139.	+	0.90363	0.12108	158.	-	0.33948	0.95520	127.	-
7. MASCULINE	0.67664	0.41706	147.	+	0.86116	0.17489	156.	+	0.30024	1.03592	121.	-
8. FEMININE	0.86116	0.17489	156.	+	0.24727	1.15700	120.	-	0.81910	0.22871	154.	-
9. PAIN	0.69643	0.39015	148.	+	0.77754	0.28252	152.	-	0.86116	0.17489	156.	+
10. GUILT	0.52963	0.62857	128.	-	0.33948	0.95520	127.	-	0.69643	0.39015	148.	-
11. ILLNESS	0.14253	1.46643	108.	-	0.50975	0.65922	138.	-	0.61864	0.49770	144.	-
12. DIVORCE	0.32605	0.98210	126.	-	0.35326	0.92829	128.	-	0.92497	0.09417	159.	+

NOTE A NEGATIVE SIGN MEANS THAT THE COMPARED CONCEPT IS CLOSER TO THE FIRST GROUP

P = PROBABILITY OF BEING LESS THAN (TWO-TAILED TEST)

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